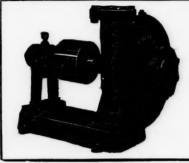
No. 17

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CHICAGO AND NEW YORK

Published every Saturday by the Food Trade Publishing Co., Old Colony Bldg., Chicago, Ill. Entered as second-class matter, Oct. 8, 1919, at the postoffice at Chicago, Ill., under the act of March 3, 1879.
Subscription Price: United States, \$3.00; Canada, \$4.00; All Foreign Countries in Postal Union, \$5.00.



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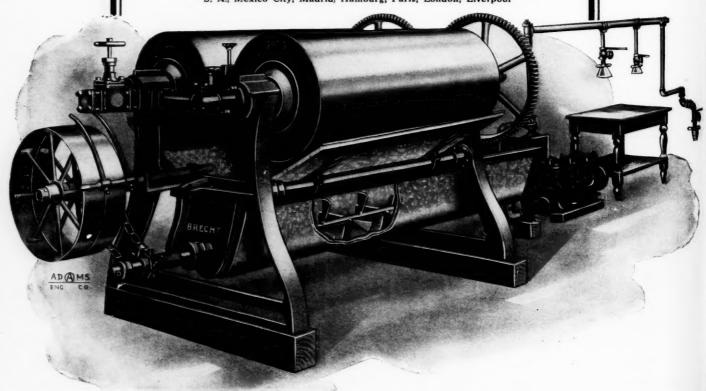
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[Trade Mark Registered U. S. Patent Office.]

OFFICIAL ORGAN OF THE INSTITUTE OF AMERICAN MEAT PACKERS AND THE AMERICAN MEAT PACKERS' TRADE AND SUPPLY ASSOCIATION

PUBLISHED EVERY SATURDAY

Entered as second-class matter at the postoffice at Chicago, Ill., under the act of March, 1879.

Vol. 66.

Chicago and New York, April 29, 1922.

No. 17.

Wallace Urges Ways to Lower Meat Costs

How to reduce the cost of living through the use of less expensive cuts of meats, and ways to reduce cost of meat production through lower freight rates and wages, were discussed recently by Secretary of Agriculture Wallace in an address before the National League of Women Voters. The daily newspapers of the country gave his remarks considerable prominence.

Secretary Wallace is quoted as saying that "modern-day habits of living in large centers inevitably increase living costs," and that "regular attendance at afternoon movies and bridge parties encourage the use of more expensive cuts of meat which can be prepared for the table in a few minutes and more expensively processed food products of all kinds."

The way to remedy this situation, in the quoted opinion of the Secretary, was to work out more economical and efficient methods of marketing, and this undoubtedly would include better accounting and salesmanship. In order to aid in this plan Secretary Wallace stated that the Department of Agriculture was making a very careful and systematic study of the matter.

On the subject of costs and wages the Secretary is quoted as saying:

"If we accept our present system of distribution of meats and other food products as being a satisfactory system, then any marked reduction in cost must come first through reduction in wages, because wages are altogether the largest item in marketing and distributing cost, whether we consider transportation, wholesaling or retailing. I am not arguing that there should be large reductions in wages. I simply point out that the large increases in wages are mainly responsible for large increases in cost to the consumer."

Further discussing the wage aspect of the cost of living question, the Secretary said that "so long as railroad workmen and workmen in industries which supply material needed by railroads succeed in maintaining wages at almost twice the pre-war normal, we cannot hope for reduction in freight rates commensurate with reduction in the cost of farm products, or sufficient greatly to reduce the cost of food to the consumer." He added that "if it were possible to bring prices of everything to about 60 per cent above the pre-war level, that would benefit most of our people and the nation at large."

the section of the forthcoming report on transportation dealing with this branch of the subject.

"The joint commission has decided to report to Congress," said Chairman Anderson, "that the transportation rates on many commodities, more especially the products of agriculture, bear a disproportionate relation to the price of such commodities; that immediate reductions in transportation rates should be first applied to farm products and other basic commodities; that reductions in rates upon the articles of higher value, or upon tonnage moving upon so-called 'class rates,' are not warranted while the rates upon agricultural products and other basic commodities remain at their existing levels; that greater consideration should be given in the future by public rate-making authorities and by the railroads in the making of transportation rates to the relative value of commodities and existing and prospective economic conditions.

"It also appears from our inquiry that the pyramided per cent advances in rates authorized by the Interstate Commerce Commission or made by the United States Railroad Administration caused the dislocation of long standing rate relationships between rates upon agricultural and industrial products and between competitive enterprises and competitive sections of the country; also, that the railroads and public rate-making bodies should seek to readjust rates so as to preserve as far as practicable the general relationship existing prior to 1918 with due regard to present and future economic conditions.

Effects of High Rail Rates on Basic Products

Shippers of such basic commodities as meat products are suffering from a 72-cent dollar, according to the recent report of the transportation committee of the Joint Commission of Agricultural Inquiry, and the report recommends that these rates should be the first ones to be reduced. In this conclusion the report states that "freight rates on perishables normally take about one-third of the selling price and frequently two-thirds, and in periods of low prices and light demands, they constitute a heavy burden upon this traffic."

Regarding the rates on livestock the commission reports that "livestock shows marked fluctuations in daily, weekly, monthly and yearly shipments, and it urges that railroads, shippers and stockyards should co-operate to bring about a more even distribution of shipments at the livestock markets. Increased marketing costs, including freight, commission and other charges, are found to have borne with the greatest severity upon the livestock producer farthest from market."

On this subject Chairman Anderson

stated that "farm prices of livestock in 1921 were below the 1913 level. If higher prices cannot be realized, it is obviously necessary that all the cost of marketing and distribution must be stabilized at approximately the 1913 level." But in many cases the freight, feed, yardage and other costs should find a level corresponding to that of the price of livestock.

Reduce Basic Commodity Rates.

On the subject of the freight rates on basic commodities such as packinghouse products the commission recommends reductions as, for example, on fertilizers. On this subject the commission says: "Fertilizer prices are now close to the pre-war basis, except for the higher freight costs now prevailing. Material prices and costs of manufacture are almost back to normal, leaving the present freight costs almost entirely responsible for the difference between present cost of fertilizer and that which prevailed prior to the war."

Speaking for the entire commission, Chairman Sydney Anderson of Minnesota has given out an authoritative forecast of

Rates a Burden on Perishables.

"We have found that freight rates on perishables normally take about onethird of the selling price and frequently two-thirds, and in periods of low prices and light demands, they constitute a heavy burden upon this traffic.

burden upon this traffic.

"It is manifest from the evidence we have secured that the purchaser and the farmer are dependent to a marked degree upon the transportation charges of farm products. Regardless of the distance involved these transportation charges must enable both the carrier and the producer to realize a profit from is operations.

to realize a profit from is operations.

"The report will show that in October, 1921, farm products were at an index figure of 102 and railway rates at 169, and that in this period of falling prices for farm products the increased freight charges made the farmer feel more keenly the relationship of freight charges to the price obtained for his product."

Freight and Price Levels.

The commission has found that livestock shows marked fluctuations in daily, weekly, monthly, and yearly shipments, and it urges that railroads, shippers, and stock yards should co-operate to bring about a more even distribution of shipments at the livestock markets. Increased marketing costs, including freight, commission, and other charges are found to have borne with the greatest severity upon the livestock producer farthest from market.

"Farm prices of livestock in 1921," Chairman Anderson said, "were below the 1913 level. If higher prices cannot be realized, it is obviously necessary that all the cost in marketing and distribution must be stabilized at approximately the 1913 level. If, as now appears to be the case, prices of livestock are going to find their level somewhat higher than in 1913, freight, commission charges, feed, yardage, and other costs may also find a level corresponding to that of the price of livestock?"

"Aside from their direct application to the products of agriculture," said Mr. Anderson, "transportation charges have an indirect but important effect on agriculture through their relation to the cost and selling price of the basic commodities. We have gone into the subject from that angle and will be able to present some definite conclusions in our report.

"For example, fertilizer prices are now close to the pre-war basis except for the higher freight costs now prevailing. Material prices and costs of manufacture are almost back to normal, leaving the present freight costs almost entirely responsible for the difference between present cost of fertilizer and that which prevailed prior to the war.

TO DISCUSS OCEAN SHIPPING.

According to revised programs the May 11 sessions of the Ninth National Foreign Trade Convention, at Philadelphia, will be devoted largely to ocean shipping. The general session will hear an address by W. J. Conlen, Philadelphia, on "The American Merchant Marine," and another by W. H. Stevenson, member of the Lake Eric and Ohio River Canal Board of Pennsyl vania, Pittsburgh, on "The Dependence of Our Foreign Trade on the Improvement of Our Inland Waterways."

Group IV of the convention will hold a session on the afternoon of May 11, at which the principal topic will be "The Responsibility for Loss and Damage in Ocean Shipments." The Hague rules will be explained by Charles S. Haight, of the International Chamber of Commerce, New York. C. B. Heinemann, vice-president of the Institute of American Meat Packers, Chicago, will present the shippers' views on these rules, and W. H. Stayton, of the Baltimore Steamship Co., Baltimore, the carriers' views. A speaker yet to be selected will present the underwriters' views.

ATTACK S. E. FRESH MEAT RATES.

Under date of April 18 Swift & Company filed a formal complaint attacking as unreasonable the existing rates on fresh meat and packinghouse products from Ohio and Mississippi River crossings to the Carolina territory. The principal complaint is against the factors of the through rates accruing to the lines south of the Ohio and east of the Mississippi Rivers.

The complaint points out that although the Interstate Commerce Commission had expressed its opinion as to what would constitute a reasonable rate on packinghouse products, the carriers saw fit to ignore these suggestions when it was to their interest.

The complaint asks that on fresh meat in carload lots the rate be made 15½ cents higher than the rates on packinghouse products. Involved in the complaint is an attack on the packinghouse products rates

from Moultrie, Ga. It is claimed that the basis from Moultrie to Carolina destinations is also made without regard to the Commission's suggestions.

INTERSTATE COMMERCE CASES.

Complaints made recently to the Interstate Commerce Commission and decisions rendered by the commission in cases of interest to meat packers are reported as follows:

Rates on Cattle to Fort Worth .- An award of reparation on account of unreasonable rates on beef cattle, from Wilson, Okla., to Fort Worth, Tex., has been made in No. 11972, M. L. Davis and W. D. Davis vs. Gulf, Colorado & Santa Fe, Director-General, as agent, et al., opinion No. 7559, 68 I. C. C., 303-4. A rate of 32 cents was imposed on 24 carloads of cattle shipped between July 16 and November 4, 1917, and 34.5 cents on 20 carloads, shipped between July 13 and August 26, 1918. As to the cars that moved prior to government control the carriers admitted the rate unreasonable to the extent it exceeded 22.5 cents. The Director-General, however, pointed to the aggregate of intermediates and professed willingness to make repara-The Commission held tion to that basis. the 32-cent rate unreasonable to the extent it exceeded 19.25 cents and the 34.5cent rate unreasonable to the extent it exceeded 24 cents and awarded reparation to the bases of such rates.

Carloads on Dried Blood.—In No. 13719, Armour Fertilizer Works, Chicago, vs. Director-General, as agent, unjust and unreasonable rates on three carloads of dried blood from Denver, Colo., and South Omaha, Neb., to California points are urged and it asks reparation.

Meat Rates to British Isles.—An appeal for a reduction in ocean rates to the British Isles, for cool air space, was made to W. J. Love, vice-president of the Emergency Fleet Corporation in charge of traffic, this week by the Institute of American Meat Packers. In a petition the Institute said reductions were absolutely necessary if American exporters are to meet European competition. In the petition attention was called to the fact that although the season for making contracts for cool space has arrived, practically no contracts have been made, and that "from the present outlook it is extremely doubtful that exporters will be able to meet European competition on any basis that will enable them to pay present rates demanded."

The Institute said it was understood that the Shipping Board has considerable space available. Before the war, it said, cool air space was available at seldom more than 50 per cent over ordinary stowage rates; whereas now the lines ask approximately 100 per cent over ordinary rates.

"American exporters," the petition said,
"cannot absorb this excess and meet competition of European packers more advantageously situated."

The petition said that experience convinced it that the pre-war percentage applied to present cargo rates would yield rates ample to cover any increased cost of ventilating or refrigerating. Early consideration of the petition was asked.

Vice-President Love said he had received the petition of the Institute and that he would make an investigation relative thereto. He declined to comment further on the petition.

Stock Cattle Rates Unreasonable.—In No. 12563, Healy & Company vs. Director-General, as agent, Missouri, Kansas & Texas Railway Company, et al., the rate applicable on stock cattle, in carloads, from Kansas City, Mo., to Oklahoma City, Okla., was found unreasonable. Defendants were directed to waive collection of undercharges and complaint was dismissed.

Western Packinghouse Products Rates.—In No. 11578, Jacob E. Decker & Sons vs. Director-General, as agent, Minneapolis & St. Louis Railroad Company, et al. 1. Rates on fresh meats and packinghouse products. in straight or mixed carloads, from Mason City, Iowa, to Minneapolis, Minn., found not unduly prejudicial. 2. Rate on packinghouse products from Mason City to Duluth, Minn., found unduly prejudicial to the extent that it exceeds the rates contemporaneously in effect from Chicago, Ill., and Milwaukee and Cudahy, Wis., to the same destination, and to the extent that it exceeds the rate contemporaneously in effect from St. Paul, Minn., by more than 15 cents. Undue prejudice ordered removed, and reparation denied. 3. Fourth section relief denied.

Rates on Vegetable Oils.—The commission has reversed itself in No. 10405, Southport Mill, Ltd., vs. the Director General et al., and the long line of cases on which it formally held rates on palm kernel, cocoanut, and copra oil unreasonable. With Campbell and Aitchison dissenting it held the rates on cottonsed products subnormal and, therefore, not a proper measure for determining reasonable rates on other vegetable oils in 1918 and 1919. It held that the scale prescribed by it in the Oklahoma Cottonseed Crushers Association case (39 I. C. C. 497) would have been reasonable as maximum rates for application to the other vegetable oils. Reparation is to be made to that basis instead of the basis of cottonseed product rates, as formerly ruled.

Rates on Packinghouse Products.-Further discussion regarding the propriety of assessing a commodity rate on packingassessing a commonity rate on packing-house products, moving from Ottumwa, Ia., to Memphis, Tenn., between November, 1913, and June 25, 1918, in excess of the fifth class rate, took place at the hearing on the reopened case, No. 9355, John Morrell & Co. vs. C. B. & Q. et al., before Examiner Gault, in Chicago, April 25. The rate charged up to the time the Director General made a 25 per cent increase, in General Order 28, was 31 cents. During that period the fifth-class rate was 29 but in their original complaint, the Morrell company assailed the commodity rate as unreasonable to the extent that it exceded 25.5 cents. By a supplemental complaint the commodity rate of 39 cents subsequent to June 25, 1918, was alleged unreasonable to the extent that it exceeded 25.5 cents plus 25 per cent, or 32 cents. The class rate was increased to 36.5 cents on that date, and the carriers made refund to that basis when the commodity rate was reduced 2½ cents, in March, 1919.

The complaint was dismissed in August, 1921 (61 I. C. C. 153-158), the commission holding that the commodity rates charged were not unreasonable. The reopening was asked by the complainants for the purpose of introducing new evidence.

The discussion at the Chicago hearing centered around the question of tariff application. The complainants contended that under the tariffs the class rates should have been applied as maximum. This the carriers denied, and the complainants countered by asserting that if the tariff provided for the application of the commodity rate, that rate was unreasonable per se. Figures and exhibits were introduced by the packing comany in an effort to induce the commission to arrive at the latter conclusion.

CANADA TO CUT RAIL RATES.

On or about July 7 of this year there will be a reduction of Canadian railroad freight rates by 40 per cent, according to Premier Norris of Manitoba in a recent address. Since this will take place before the 1922 crops begin to move, the reduction will mean an annual saving of approximately \$8,000,000 to Manitoba farmers in freight rates.

BETTER BREEDING MEANS BETTER MEAT

What Murdo Mackenzie Says as Result of Brazil Experience

What great progress in meat production can be made in a few years through improving the raw material for the meat packing business is the story told THE NATIONAL PROVISIONER by Murdo Mackenzie, former president of the American National Livestock Association and one of the leading cattle raisers of both North and South America.

Mr. Mackenzie has just returned from a three months' visit to Brazil. There he spent most of his time on the properties of the Brazil Land, Cattle & Packing Company, which he established and of which he was manager from 1911 to 1919. A thousand miles west of San Paulo Mr. Mackenzie opened up ranches with a total of nine million acres, and pasturing a quarter of a million head of cattle.

As Mr. Mackenzie at the present time, with all his other interests, is serving the meat packers of the United States as chairman of the Improved Livestock Breeding Committee of the Institute of American Meat Packers, it is of special importance to know what is being done by American livestock experts outside this country to improve the raw material of the meat packing industry. This is especially true of Brazil, which has great natural advantages as a cattle country, but requires much work to improve the livestock quality itself.

Just now the results of work where there were greater handicaps to improved livestock breeding than in this country give point to the lesson for those who are trying to improve livestock in the United States. The experience in Brazil of men like Mr. Mackenzie, who are at the same time directing the activities of the Committee on Improved Livestock Breeding of the Institute of American Meat Packers is doubly valuable. For it is not only an indication of what has to be done in this matter but also indicates what not to do to get the best results.

Brazil Stock Quality Low.

While Brazil has approximately 30,000,000 cattle, they do not compare in quality with those of the United States. There are comparatively few breeders of purebred livestock, and the cattle and hogs resembled the type and breeding of those of southern and eastern Texas. Many of the producers have been crossing and recrossing, in the effort to find an animal suitable to local conditions which will, when slaughtered, yield a more satisfactory acresses.

The breeds which seem to have given the best results are the Hereford, Shorthorn, Angus, Holstein and the Zebu, or East Indian cattle. Of these the Zebu is an animal which is more hardy and appears to withstand the pests and droughts better than the native breeds of the United States and is quite generally used in Brazil. This fact together with the high percentage of calves accounts for the Brazilians considering it more important to produce these rather than fewer animals of better type and quality.

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Those like Mr. Mackenzie, who are work-

ing for better quality, state that at the present time it is not likely that the Brazilian cattle raisers will discard the Zebu very soon unless there is a greater difference between the steer sired by the Zebu bull and the one sired by the improved beef type bull. But the Zebu has a tendency to produce an inferior beef animal, while the Hereford, Angus and Shorthorn improve the type and enable it to mature more quickly. Imported bulls are being used more and more as it is being realized that European countries will not continue to use the beef of the Zebu. one reason why Brazil's export trade in meat will not grow greatly until a change in this matter is made.

What Must Be Improved.

American livestock producers who have gone into Brazil to improve the cattle there, find that the pastures must be improved, supplementary feeds must be used, better breeds introduced, disease must be more intelligently and insistently com-



MURDO MACKENZIE, Chairman, Committee on Improved Livestock Breeding, Institute of American Meat Packers.

bated, and a more profitable outlet found for the sale of the finished product.

A good example of the improvement that is being done is the work of the Brazil Land, Cattle & Packing Co. with which Mr. Mackenzie is associated. The success of this company was the subject of a recent address by the president of the Brazillan Rural Society, Dr. Paulo de Moraes Barros. The ranch of this company is in the mountain country and on reaching the camps one finds pure-bred bulls, some Herefords, with their sleek, cylindrical bodies and white hairy faces, others Shorthorns, red or roan in color, with well-formed quarters.

This ranch of the Brazil Land, Cattle & Packing Co. comprises an area of 43,560 square kilometers and has about 36,000 head of cattle of which now some 6,000 or 7.000 are one-half and three-quarters bred.

Brazil Land-Cattle Co. Work.

Regarding the pastures, Dr. de Moraes

Barros says: "These pastures are of 'capim mimoso' and 'capim branco,' with rare intervals of gramma, which the annual burning of the pastures prevents from spreading. These native grasses have to be burnt in order to continue to give good feed. For this reason the carrying capacity of the pasture is lessened. The soil is good and so are the grasses as can be seen from the fat and healthy cattle, but there are better grasses which are being introduced."

Factors which aid the work of improving the cattle breeds in Brazil, in many places such as the ranch described, are the almost total absence of parasites and infectious and contagious diseases among the cattle. This is a tribute to the work that has been done by the Brazil Land, Cattle & Packing Co. Dr. de Moraes Barros points out that after a most careful search he was unable to find one "bicheira" or worm infected sores, and "bernes" are so rare that, practically speaking, they may be said not to exist. This may also be said of the tick.

With these conditions it is clear that cattle are easily raised in a country like the part of Brazil in which the ranch lies. As Dr. de Moraes Barros said in his address, an intelligent cattle raiser like the Brazil Land, Cattle & Packing Co., is a victorious example for the other producers in that part of Brazil to follow. The manager of the ranch, Mr. Burr, gives the information that "with the exception of a broken leg, or death from goring or kicking, a calf born means a steer in three years, as sickness is unknown. With purebred stock this is not so certain, as more than 5 per cent of the calves born are lost." One reason for this is the fact that there are no periodical droughts as in other sections of the country.

An Achievement in Breeding.

The conclusion of Dr. de Moraes Barros' address sums up the achievement of improving livestock by this company:

"The cattle, approximately to he num-

"The cattle, approximately to the number of 500, formed two beautiful groups, being the second generation from the crossing with pure-bred bulls of the breeds already referred to, their ages varying from one to four years.

"Considered as a whole, or as individual examples, the victory of introducing purebred bulls for crossing with the native cattle in the interior of Matto Grosso was apparent. The characteristics of the race shown, the capacity to adapt themselves to local conditions, and the satisfactory masses of beef were proofs not to be denied

"Supported by the authoritative opinion of the manager of the ranch, a veteran cattle raiser of Australia and Texas, we were much more favorably impressed by the get of the Hereford, both in type and size. The Durhams shown were more affected by the climate and did not have the beautiful conformation characteristic of the race.

"We left Capao Bonito convinced that

"We left Capao Bonito convinced that this ranch typifies by its size and results a model of the saving program of the cattle industry in Matto Grosso. It represents the necessary reaction, victorious against the approach of the Zebu into the highlands, as does an instructive and practical school, by means of intelligent processes show economies of production."

Facts About Meat Values

The Committee on Nutrition of the Institute of American Meat Packers is doing constructive work in investigating the scientific values of meat as food, and in giving these facts to the consuming public through the Institute's Bureau of Public Relations. Meat men should know more about the product they sell. Under this heading from week to week will appear information which the trade can well afford to study and pass along to customers.

MEAT PROTEIN CURES PELLAGRA.

Pellagra, a mysterious disease which has caused widespread illness and taken a heavy toll of life in the United States and many countries of Europe, is caused primarily by lack of animal protein in the diet, and is both preventable and curable by proper quantities of animal protein being included in the diet, it was announced recently by the United States Public Health Service. Doctors Goldberger and Tanner. surgeon and past-assistant surgeon, respectively, reporting the results of many years' study of the disease, assert that forty grams per day of beef or milk proteins in the diet will, for practically all normal individuals, prevent the contraction of pellagra. The necessary forty grams of animal protein are contained in about a half pound of beef, or three pints of milk.

"Thus it does not suffice," says the report, "merely to include milk or meat in a diet to prevent pellagra. The quantity of either of these or of other like foods alone or as supplements, must be considerable to be effective. This may help to explain some of the instances of pellagra in individuals, including some of those very rare ones in nursing infants, who are alleged to have had a 'good' diet. They did not consume enough for their particular needs."

The following selected quotations set forth the logic of the situation as expressed by Goldberger and Tanner:

"There is now at hand a considerable and convincing body of evidence in support of the view that diet is the primary controlling factor in the prevention and causation of pellagra."

"To begin with, account must be taken

"To begin with, account must be taken of the fact that no unequivocal evidence of the transmissibility of the disease has yet been adduced."

"Of outstanding significance are, on the one hand, the demonstration that pellagra may be completely prevented by means of a suitable diet, without intervention of any other known factor, hygienic or sanitary, and, on the other, the absence of any sound evidence that the disease is preventable by any other means."

Referring to experimental work on a group of convicts, the report states, "At least 6 of 11 convicts who volunteered for the experiment and who subsisted on a diet consisting principally of the cereals, wheat, maize and rice, with pork fat and some fresh vegetables (sweet potatoes, turnips, cabbage, greens), developed evidence which experienced observers recognized as that of pellagra; whereas, of a large number of controls, none presented any evidence justifying even a suspicion of the disease."

"Thus, by a process of exclusion we are led to conclude that of the known dietary essentials the protein factor alone was concerned in our failure to prevent the development of the cases herein cited. And if our interpretations are, as we believe, sound, and if all dietary factors essential in human nutrition are known, the further

conclusion may properly be drawn, namely, that the dominating role of diet in the prevention and causation of pellagra must be referred primarily to the character of the protein supply."

the protein supply."
"Some of the perplexity and confusion will also be prevented, if it is not forgotten that the biological quality of a protein and its adequacy in relation to pellagra may, and doubtless frequently do, depend on the plane of intake. In our experience, a supplement of not over 40 grams of milk or beef proteins will, for practically all normal individuals, adequately supplement a pellagra-producing mixture of proteins from maize, wheat, rice, and cowpeas, but 20 grams, representing somewhat over a pint of milk or a quarter of a pound of round steak, may not do so."

FARM LIVESTOCK VALUE DECLINES

The value of animals raised on farms in 1921 was \$1,937,000,000, according to estimates made by the United States Department of Agriculture. This is a drop from \$2,999,000,000 in 1920, and from \$4,146,000,000 in 1919. The decline from 1920 to 1921 was almost entirely due to lower animal prices. The decline from 1919 to 1920 was the result of a diminished number of beef cattle, sheep and hogs raised and the high cost of feed.

Calf slaughter for veal remained high throughout the three years, and the replenishment of milk cows continued. Veal was the only meat the production of which seems not to have been uneconomic in 1919 and 1920. Production of sheep was handicapped by a low wool market.

The value of beef cattle raised fell from \$967,000,000 in 1919 to \$596,000,000 in 1920 and to \$389,000,000 in 1921. Sheep and lambs declined from \$134,000,000 in 1919 to \$82,000,000 in 1920 and to \$47,000,000 in 1921. Swine dropped from \$2,219,000,000 to \$1,523,000,000 and to \$954,000,000. The value of horses raised fell from \$146,000,000 in 1919 to \$105,000,000 in 1921; of mules from \$60,000,000 in 1919 to \$43,000,000 in 1921.

Classification of animals raised in 1921 according to their uses affords interesting totals. The value of meat animals was \$1,788,000,000. Some of these animals also yielded animal fiber, and some for a period of years performed service for the dairy. The value of animals raised for the purpose of providing power was \$149,000,000.

FREE EXPORT FOR MEXICAN STOCK.

According to a presidential decree of March 15, 1922, the folowing domestic animals may be exported from Mexico free of duty: Asses, geldings, stallions, mares, goats, sheep, mules, hogs and pigs, bulls and steers over one year old and cows over eight years old. These animals were formerly dutiable at rates varying from 0.01 pesos per kilo to 25 pesos each. The exportation of heifers and cows younger than 8 years and the unweaned young of asses, horses, goats, sheep and hogs is prohibited.

Allied Packers Buys Big Chicago Plant

Announcement is made of the purchase of the Western Packing & Provision Co., Chicago, by the Allied Packers, Inc. The operation of the Chicago plant will probably be taken over by the Allied Packers on May 1st. Definite plans for extensive additions to this plant are now under consideration, and building operations will probably be started within the next thirty days.



J. A. HAWKINSON, President Allied Packers, Inc.

The Western Packing & Provision Co. was organized by several Chicago packers about seventeen years ago. They have at this plant conducted their own slaughtering operations and have also slaughtered for several other packers who were not

stockholders. The development of the Western Packing & Provision Co. has been very rapid and this plant, which only a few years ago was a comparatively small one, is now one of the largest packing plants in the country.

The former owners will continue to slaughter at the Western Packing & Provision Co., and there is every reason to believe under the new ownership the business of the Chicago plant will develop even more rapidly than in the past.

The Allied Packers, of which John A. Hawkinson is president, occupies a unique position in the packing industry. While operating a number of plants in different sections of the country, there is no duplication of the company plants in any one city, and it is noteworthy that a number of the former owners of plants purchased by the Allied Packers retain substantial interests in the Allied Packers and are active managers of the company's plants.

This plan is being followed in the purchase of the Western Packing & Provision Co. Mr. Otto Blaurock, former general manager of the Western Packing & Provision Co., will be vice-president and general manager of the Chicago plant. The acquisition of the Western Packing & Provision Co. does not eliminate any competition, but the management states that it hopes to effect extensive economies through improved methods of operating.

The Allied Packers now operate packing plants at Detroit, Buffalo, Wheeling, Topeka and Richmond, also at different points in Canada. The purchase of the Western Packing & Provision Co. will enable the Allied Packers to extend their export operations and to compete actively for business in the Chicago territory.

FRENCH MARKETS FOR U. S. HOG PRODUCTS

Depleted Stocks Mean Larger Summer Pork Imports

By Alfred P. Dennis, Special Representative, U. S. Department of Commerce.

(EDITOR'S NOTE-The interest and imporrance of the meat situation in Europe at present is shown by special articles which THE NATIONAL PROVISIONER is publishing. The first article on American meats markets by Dr. Dennis appeared recently and an article by a special representative on the Dutch meat trade will appear in an early issue. This is a very timely matter since Holland is a competitor in fresh pork in Brit-

American meats have never found any great favor in France. The country is fundamentally agricultural, and before the war the livestock industry had been carried to a point that fairly sufficed domestic needs. There was some business done in American pork products even before the war, but it ran to small proportions. For example, the total amount of salt pork, ham and bacon imported from the United States in 1913 was something under 200 tons out of a total of 5,678 tons. We were beaten by both Germany and England more than seven times over and were greatly outdistanced by both Belgium and

The year 1920 shows a complete reversal of the situation. The United States led the list of imported pork products with more than 32,000 tons out of the 37,000 tons imported in that year. Germany, of course, " had dropped out altogether, and such former competitors as Ireland and Belgium were hardly to be reckoned with. Canada. however, makes its appearance as a postwar supplier of pork products. Business during 1921 reflected the worldwide trade slump, but the United States still retained an overwhelming lead with sales of 6.800 tons out of a total of 10,000 tons.

U. S. Lard Position Supreme.

In the matter of lard, our position in the French market has been one of undisputed primacy for years. In 1913 we shipped over 4,000 tons to France, and the trade in 1919 had attained the impressive amount of 37,600 tons. This in turn declined to 25,400 tons in 1920. Despite the adverse trade conditions all over the world in 1921 the United States sold 21,580 tons of lard in France last year. In brief. our normal trade in lard with France is four or five times the quantity of all other countries combined.

Figures may be given for one other principal item in our hog products trade, that is, sausage. In 1913 we were running on little better than even terms with Italy as an exporter of sausage to France, but even in the pre-war year we took first rank, furnishing a little more than onethird of all the sausage imported into the country. By 1920 we furnished 2,704 tons out of the 3,104 tons imported from all sources. Last year France imported from the United States 1,114 tons of sausage. or nearly three times the amount taken from all other sources.

Imports of Pork Products.

Following are tables showing French imports of pork products in the years 1913, 1919, 1920 and 1921:

SALT PORK, HAMS AND BACON.

Sources.		Tons.	Tons.	Tons.
Great Britain		1.566	2,380	1,981
Germany		1,405	2111	21002
Belgium		971	285	356
		702		
Ireland			00'110	
United States		194	32,456	6,830
		164	104	
Austria Hungary		367		
Italy		98		
Netherlands		90	181	
Canada			1.563	
Other countries		45	373	865
Colonies		76	24	
Colonies		10	24	****
Total		5,678	37,366	10,032
	SAUSAGI	E.		
		0	uantities	
		1913.	1920.	1921.
Sources.		Tons.	Tons.	Tons.
United States		372	2,746	1.148
Italy		347	110	296
Germany		98		
Serbia		49	****	
Great Britain		19		
Switzerland		14		
Spain		13		
Canada			193	
Jugoslavia				73
Other countries		72	65	139
Colonies		37	26	
colonies				****
Total		1,021	3,140	1,656
	LARD.			
	-		itities	
	1913.	1919.		1921.
Sources.	Tons.	Tons.	Tons.	Tons.
United States				21,585
Other countries		6,588		4,382
Total	5,323	44,229	35,391	25.967
	Values (fi	gures gi	ven in the	msands
		-of fra	ines)	
	1913,	1919). 1	1921.
Clair waste barres and	9.9			

.21,590,000 580,883,000 112,031,000 French Pork Products Trade.

Salt pork, hams and

1913, 1919. Francs. Francs. .10.594,000 425,771,000 . 3,369,000 22,426,000 . 7,717,900 132,686,000

The prices of pork products in France tend to recede along with the rapid restoration of the hog resources of the country. From 8,000 to 10,000 hogs per week have been put on the Paris market alone during the winter months. A great number of live Belgian hogs are also distributed in the northeast part of the country. While the number of hogs has not yet attained normal pre-war figures, the market has been liberally supplied during the past three months.

The abundance of fresh pork has, of course, checked the demand for imported cured meat. Heavy shipments of hogs have also been made from Algeria and Morocco.

There is little or no organization in this trade, and inequalities in distribution are reflected in a wide range of prices in dif-ferent parts of the country. There is nothing like centralization in the French meat industry. The farmer sells in his local market, and his product is reshipped, usually to great urban centers such as Marseilles or Paris.

Considerable specialization exists in the retail meat trade; that is to say, one shop goes in for pork, another for beef or mutton, and a third makes a feature of horse-flesh. It is common to find a pork butcher running a delicatessen shop and convert-ing a certain amount of his raw material into high grade sausage.

Depleted Stocks Aid Imports.

In the south of France little or no business can be done in any part of the year in smoked meat. In the north smoked meat is in better favor and has for years been imported from England. The trade in American smoked meats is unimportant.

The French killing season coincides with the winter months. The trade in imported salt meat and sausage is essentially a summer trade, that is, the campaign runs from about the first of April to the first of October. The salt meat trade has never amounted to very much because in the The salt meat trade has never winter it meets the competition of fresh meat and in the summer the middle class consumers naturally turn to fruits and vegetables.

is the opinion of the trade that the killing of hogs has been overdone in France during the present winter and that stocks have thereby been seriously depleted and that a better business ported hog products may be anticipated this summer as compared with last.

The French duty on salt pork was suspended during the war and the trade still remains free, subject to sanitary inspec-tion expenses and the salt tax, the two items combined amounting to about 5 frs. to the 100 kilos. French agricultural interests have been pressing for the restoration of the former duty on salt pork. der the old tariff Canada, as a favo (Continued on page 44.) a favored

Campaign to Boost Meat Consumption

Francs, 27,590,000 6,541,000 77,900,000

An opportunity is to be afforded the great army of meat producers of the United States to participate with packers and retailers in a nation-wide campaign for the stimulation of beef, pork and mutton consumption.

The cost, according to a plan outlined at a conference recently held at Chicago, will be infinitesimal to the individual, who is asked merely to contribute 5 cents per car on his consignments to the central markets, the packer as a buyer also paying 5 cents per car.

As approximately a million carloads of cattle, hogs and sheep are handled annually at the terminal markets, this simple process would produce at the outside a fund of approximately one hundred thousand dollars. No expense will be involved in the collection process, commission men handling the property simply collecting 5 cents from each party to the transaction.

The plan has already been endorsed by the American Farm Bureau Federation, American National Live Stock Association, Corn Belt Meat Producers' Association, Texas and Southwestern Cattle Raisers'

Association, National Swine Growers' Association, Wyoming Stock Growers' Association, New Mexico Stock Growers' Association, Arizona Stock Growers' Association, National Association of Swine Records, Kansas Live Stock Association, Institute of American Meat Packers. United Master Butchers of America, and other organizations.

A strong central body representative of all these units has been created for the purpose of carrying on what promises to be a comprehensive campaign having for its objective increased meat consumption. Every agency involved will be co-ordinated to that end, a task that can only be discharged by a central organization, equipped mentally and financially and bringing essential influence and experience into play.

Unless meat consumption can be placed on a normal pre-war basis, that branch of agriculture dependent on beef, pork and mutton cannot prosper. Potentially a broad market exists; actually the outlet is steadily contracting, one apparent reason being lack of united effort in coping with an emergency developed by several adverse

CONTROLLING THE HAM OR CHEESE SKIPPER

Its Habits Discussed and Prevention Methods Outlined

By Perez Simmons, Scientific Assistant, Bureau of Entomology, U. S. Department of Agriculture.

(EDITOR'S NOTE.—The problem of the control and prevention of the ham, or cheese, skipper has been of interest to packinghouse operators for many years. While some sections of the United States are not as much troubled by its depredations as they used to be, many packinghouse executives in other parts will be glad to read this special study made by Mr. Simmons, who is an expert. He has outlined in this article the best ways to prevent trouble from the ham skipper. Discussion as to other effective methods used will be welcomed.)

The ham or cheese skipper was well known as a pest of cheese before 1668, when information concerning it was published in Italy, but as a pest of cured meats it has not been known so long. The first report of such damage by the insect appeared in France in 1843, yet nothing of the kind was printed in this country until 1880, when smoked hams were quite extensively injured in Illinois. There are no reports available which indicate important damage to smoked meats outside of the United States, but there is no doubt that the skipper has caused many millions of dollars loss in America because of its attacks on smoked meats here.

The U.S. Bureau of Animal Industry states that over \$1,000,000 worth of meats is annually condemned by inspectors because of damage by insects, of which the skipper is the chief offender. Skipper damage is most in evidence, however, in small abattoirs and on farms, where sanitary precautions are not generally as thorough as in meat packing establishments. The amount of this scattered and sporadic damage in places not subject to government inspection cannot be estimated, but it is probably larger in proportion to the total value of meat handled than in the case of the large establishments. The costs of screening, or refrigeration, and of wrapping meats, if they could be prorated, would add a large sum to the annual toll exacted by this persistent insect.

History of the Skipper.

The written history of the skipper is an interesting one. On its first appearance in scientific print, 254 years ago, it was effectively used as an argument to disprove the theory, at that time widely believed, that minute animal life was generated spontaneously, without the process of reproduction. Since that time the insect has appeared in more than 140 scientific articles or publications, under a total of 20 different common names, and has been mentioned in poetry and fiction. For a great many years skippers in cheese have been regarded by some as a desirable addition to that food, the belief being that the maggots improve the flavor.

A method used in Europe for accelerating the speed with which cheese became wormy, by placing it under the drip of a beer tap, is recorded, and it has been told that diners on the continent have been given the opportunity to choose from cheeses in various stages of infestation. Professor Berlese in Italy has pointed out the lack of logic among those who prefer skippered cheeses, yet who would turn in disgust from food polluted

with an adult fly of the same species. Fortunately a preference for smoked meats containing skippers is yet to be reported even by those who like "inhabited" cheese. * * *

Sources of Skipper Flies.

About packing establishments, hoofs, horns and dried bones are sources of skipper flies, and these sources, together with the ease with which skippers may be reared on rotting beef, point to the probability that various kinds of carrion enable the skipper to perpetuate itself far from its adopted foods, ham and cheese. Oleomargarine, decayed fungus and marrow bones are reported foods of the insect.

I have examined infested bacon and have reared skippers on rotting beef, various kinds of cheese, Bologna sausage, lean ham and dried beef. Its scientific name Piophila means "fat lover," and much of the literature on the insect emphasizes its supposed liking for fat above all other food materials. But my attempts to rear it on fat alone have not been successful, and the insect will lay few if any of its eggs on fat if lean meat is at hand. However, skippers sometimes damage substances which are mostly fat, such as bacon.

The skipper fly is a widely distributed insect, in common with many other domesticated species which are subject to transplantation by commerce. It has been definitely reported from most countries of Europe, from England, India, the West Indies, Greenland, Alaska, and many points in the United States, and it is reasonable to suppose that it has become established in other parts of the world.

There is some evidence that the ancient Romans were acquainted with skippers in cheese 1900 years ago, and the English in the time of Shakespeare, 300 years ago, before commerce could well have brought the insect from the Western Hemisphere. In our country, therefore, it is probably an introduced species.

Life of the Skipper.

Control of any insect should be based upon a thorough understanding of its life and habits. The amount of definite information published up to this time on the skipper has not been sufficient to provide the necessary basis of facts, and the work I have undertaken, while not complete should serve to fill in some of the gaps in our knowledge of the pest. The following paragraphs are intended to explain the findings of the work recently done at Washington, D. C., without extensive tabulations or descriptions.

The life of this insect is divided into four parts:

- The adult fly (reproductive stage).
 The egg (stage of incubation).
- 3. The larva or skipper (feeding and growth stage).
- 4. The pupa (transformation or resting stage).

The adult female fly lays eggs which hatch into skippers. After attaining full growth the skippers become pupae which transform into adult flies, completing the life cycle. The pupa is protected by a tough shell, called the puparium, formed by the hardening of the last larval skin after the larva has shrunken to about half its former length.

The adult is a small, rather slender, shining black fly about ½-inch long, with two transparent wings, and somewhat resembles a winged ant. The size of the

flies is very variable, depending on the amount of proper food obtained during the feeding stage. It is much smaller and tamer than the house fly and of slower and more aimless flight, but when not flying it is much more active than the house fly and is almost continuously in motion, running, making short jumps, cleaning itself, and occasionally engaging in brief sparring matches with other skipper flies. In warm weather the females mate immediately after emerging from the puparium and the first eggs are usually laid within 24 hours.

Habits of the Skipper.

The flies are very fond of lapping the juices from lean ham, and when confined with semi-fluid putrid beef gorge themselves with it. Egg laying does not occur, or takes place very sparsely, when the females do not have access to soft, moist food. These flies will also drink water and may be found about faucets which are slowly dripping.

During the hot months the flies are very active and consequently do not live long. Mated adults confined without food or water were all dead on the third day after emergence. Mated adults supplied with food and moisture lived longer; the average life of 57 males was 9 days and of 67 females 5.9 days. Of 864 unmated flies kept without food or moisture and observed in May and June, the length of life varied from 1 to 8 days. In this case the females did not undergo the drain on their vitality due to egg laying and lived an average of 4 days compared with 3½ days for the males. These flies were nearly equally divided as to sex: 463 males and 401 females.

Of 2112 other flies observed, 1074 were males and 1038 were females. During cooler weather unfed and unmated adults lived longer. At 50 degrees Fahrenheit of refrigeration two lived 27 days, two lived 28 days and one survived for 33 days. High temperatures shorten adult life very markedly, in one trial several, but not all, being killed by exposure to 134 degrees for 6 minutes. At 118 degrees all adults were dead in less than 5 hours.

A period of varying length intervenes between mating and the laying of eggs. depending on temperature, adult food, and possibly other influences. It is not necessary for the female to lay her eggs directly upon the proposed larval food, although this is usually done, but she may lay them as near to it as conditions permit. The average number of eggs laid by 53 females was 103. The maximum number laid by a single female was 269 at over 90 degrees in an electric oven. The eggs of a single female are usually laid on 2, 3 or more different days, the maximum recorded in one day being 118, also in an oven.

Rapid Egg Laying.

The number of eggs per female is very variable, depending on several factors, but those which lay at all usually succeed in depositing at least 50 eggs. Egg laying is done in a rapid manner, sometimes at the rate of an egg every 3 or 4 seconds, the fly running about over the meat in nervous haste, with her egg tube extended and its tip touching the surface of the food. As she hastens about the tip of the tube feels the surface and explores crevices in the food into which scores of eggs frequently are packed. Often the eggs are scattered about irregularly over the meat. Cool weather reduces or stops egg laying, and I have not been able to secure eggs at 50 degrees.

Under the most favorable conditions of hot weather, when the temperature is 80° or over, eggs hatch in about 23 or 24 hours, while lower temperatures retard or prevent hatching. Eggs have not been observed to hatch at 50 degrees. The eggs are white, shining, smooth, and slightly curved, being somewhat like a banana in outline.

(To be continued.)

What Is It Worth to You to Consult Daily the Best Packinghouse Superintendents and Executives?—

If you could have at your command for daily consultation the best ' of packinghouse superintendents and leading packinghouse executives, wouldn't it be worth a lot of money to you?

In the PACKERS' ENCYCLOPEDIA - The Blue Book of the American Meat Packing and Allied Industries—the experience of the best superintendents and packinghouse executives is put in hand-book form. It has required months of careful editing to do this.

Part I of the PACKERS' ENCYCLOPEDIA covers every phase of packinghouse operation, from selection of the live animal to disposal of the by-products. The following outline gives an idea of its contents:

Chapter One:-CATTLE

Breeds of Cattle
Breeds of Cattle
Market Classes and Grades of Cattle
and Calves
Dressing Percentages of Cattle
Beef Slaughtering
Beef Cooling
Beef Grading
Beef Grading
Handling of Beef for Export
Beef Cutting and Boning
Plate Beef
Mess Beef
Curing Barreled Beef
Manufacture of Dried
Handling Beef Offal
Handling Beef Offal
Handling and Grading Beef Casings
Handling and Grading
Handling and Grading
Handling deserved Beef
Manufacture of Beef Extract
Manufacture of Oleo Products
Tallow
Handling of Hides

Chapter Two:-HOGS

Breeds of Hogs Market Classes and Grades of Hogs

Dressing Yields of Hogs
Hog Killing Operations
Hog Cooling
Shipper Pigs
Pork Cuts
Curing Pork Cuts
Smokehouse Operation
Ham Boning and Cooking
Lard Manufacture
Hog Casings
Edible Hog Offal or Miscellaneous
Meats
Meats

Chapter Three: -SMALL STOCK

Meats Preparation of Pigs Feet

Market Classes and Grades of Sheep and Lambs Sheep Killing Sheep Dressing Sheep Casings Casings from Calves and Yearlings

Chapter Four:-INEDIBLE BY-PRODUCTS

Inedible Tank House Blood and Tankage Yields

Tankage Preparation
Digester Tankage
Tallow and Grease Refining
Manufacture of Glue
Bones, Horns and Hoofs
Handling Hog Hair
Catch Basins
Cost and Return on By-Products

Chapter Five: - MISCELLA - NEOUS

Sausage Manufacture
Meat Canning
Animal Glands and Their Uses
Packinghouse Chemistry
Packinghouse Refrigeration
Packinghouse Cost Accounting
Location of Packing Plants
Construction of Packing Plants

Chapter Six:-VEGETABLE OILS

Vegetable Oil Refining Compound Manufacture Winter Oil Manufacture of Margarin Hydrogenation of Oils and Fats

Part II is a Statistical Section in chart form, offering graphic comparisons of number and prices of meat animals, corn, meats and products; production, exports, imports and consumption. There are tables of statistics covering the operations of the industry, both United States and Canada, charts and tables of livestock and meat freight rates, and official definitions of both foreign and domestic traffic terms, with much other valuable statistical and reference data.

Part III is a Trade Directory, in which are listed—with data of corporation information, operations, capacity, equipment, brands, etc.—the meat packers of the United States, together with those of Canada, South America and other coun-The Directory Section includes also listing of wholesale meat dealers, sausage manufacturers, renderers, lard and vegetable oil refiners, margarin manufacturers, packinghouse and oil brokers, and livestock order buyers.

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THE NATIONAL PROVISIONER

CHICAGO, ILL.

TRADE GLEANINGS

The Charles Sucher Packing Co., Western and Dakota avenues, Dayton, O., will shortly erect an addition to its plant.

Wilson & Co., Inc., have opened a new branch house at 420 South Second street, Harrisburg, Pa., as a result of increasing busines.

The Armour Fertilizer Works recently sustained a considerable loss through fire in their plant at Shrewsbury, five miles from New Orleans, La.

William H. Zeller has incorporated a new meat company at Philadelphia with a capital of \$250,000, whose financial agent is the Guarantee & Trust Co.

The London Produce Company, Inc., is moving its American offices on May 1 from 140 Nassau street, New York, to 233 Congress street, Boston, Mass.

The Liquid Soap Co. has recently been incorporated with offices at 128 North Wells street, Chicago. The incorporators are I. C. Brennan, N. Lesser and T. Deutsch.

The new sausage plant of Joseph Loschke and A. C. Zercher at 43rd street and State Line, Rosedale, Kansas City, Mo., which is to cost about \$40,000, will soon be begun.

The Atlanta Butchers' Association, Atlanta, Ga., is going to erect at once a new abattoir to cost about \$75,000. It will be built on Decatur street, adjoining the present plant.

The East End Packing Co., 36th and Water streets, Wheeling, W. Va., recently sustained a loss by fire estimated at \$7,000, which was, however, entirely covered by insurance.

H. Murray and John Stewart have leased a property from Geo. P. McNear at Second and C streets, Petaluma, Cal., and will establish a poultry packing plant there with a capacity of 12,000 head.

E. S. Valliant & Son, Centerville Landing, Md., are going to enlarge their fertilizer plant to about three times its present capacity and it is expected that the plant improvements will be completed by the early summer.

The Kaw Packing Co. has been incorporated at Topeka, Kans., with a capital of \$100,000. The incorporators are F. E. Barthman, R. L. Miller, L. H. Kimmell, H. A. Hodgins, F. J. Ross, F. H. Bonebroke and Hugh McFarland, all of Topeka.

The Dayton Abattoir Co., Dayton, O., has taken over the Focke plant at 1022 Valley

street and will conduct a general meat packing business. The new company is capitalized at \$50,000 and has been incorporated by Jesse Jacobs and Harry J. Jacobs and others.

B. Alexander has made an offer to the Chamber of Commerce of Stevens Point, Wis., to erect a soya bean extracting plant costing about \$50,000 if the farmers of Portage county and central Wisconsin can be induced to increase their production to 50,000 bushels a year and a guarantee given of that amount.

The Wichita Meat and Provision Co., East 23d street, Wichita, Kan., is going to build a new packing plant to cost about \$20,000 as a result of the increase in business since the company was organized. The capacity will be 300 hogs and 400 cattle a week. The officers are: Everett Perisho, president; R. C. Jackson, vice-president, and G. M. Grimes, secretary-treasurer.

EASTERN MEAT TRADE CONDITIONS

Meat trade conditions for the week at New York, Philadelphia and Boston are reviewed by the United States Bureau of Markets as follows:

The upward trend of fresh meat prices continued throughout the present week at all eastern markets. Price changes were irregular, but reflected the effects of lighter receipts with an improvement in the general demand.

Receipts of steers and cows for the week were light to moderate and of generally good quality, although steers of choice grade were comparatively scarce. The demand in general showed considerable improvement over previous weeks, and, while not active, was sufficient to put the market on a strong basis. Fore-quarter cuts were in better demand than for several weeks. Compared with a week ago, Boston is 50c higher on steers and \$1.00 higher on cows, with Philadelphia \$50c to \$1.00 higher on both steers and cows and New York unevenly \$1.00 to \$2.00 higher on steers and 50c to \$1.00 higher on cows. Receipts of bulls were extremely light with prices today 50c to \$1.00 higher than a week ago at Boston and steady to 50c higher at New York, with practically none on sale at Philadelphia. Kosher beef trade has been dull, prices ruling generally steady at Boston and Philadelphia and weak to 50c lower at

Receipts of western dressed veal and local slaughter were about the same as last week, but there was a considerable improvement in the demand. Many retailers increased their purchases of veal in preference to lamb at prevailing prices which made a wider outlet and tended to strengthen the market. Compared with a week ago, New York is steady, Philadelphia \$2.00 to 3.00 higher, and Boston barely steady.

The lamb market was featured by sharp advances at New York and, while other markets showed less strength, there was a firm undertone due to light receipts. Spring lambs are arriving in small lots, but not sufficient at present to materially affect the market, although the heavier averages are selling at only a slight premium over other lambs. Frozen Argentine and New Zealand lambs were offered at \$23.00 to 24.00, but sold slowly. Compared with a week ago, New York is \$3.00 to 5.00 higher; Philadelphia \$1.00 to 3.00 higher, and Boston steady.

The mutton market advanced in sympathy with lambs with sharp advances in prices at New York. Receipts were light and there was a good demand for handyweight kinds, particularly wethers. Compared with a week ago, New York is \$5.00 to 6.00 higher; Philadelphia \$2.00 to 3.00 higher, with Boston steady.

The demand for fresh pork was slightly better than last week and the market strengthened under light to moderate receipts, lightweight loins showing the greatest advance. Compared with last Friday, Boston is steady to 50c higher; New York \$3.00 higher on loins with other cuts steady to \$1.00 higher and Philadelphia unevenly \$1.00 to 3.00 higher on loins with other cuts steady to \$1.00 higher.

Boston closing barely steady on beef, veal and pork, strong on lamb and mutton. There will be a small carryover of pork loins with good cleanup on all other classes. New York closing steady on all classes with practically all this week's supplies sold out. Philadelphia closing fully steady on beef and pork with a possible light carryover. Veal, lamb and mutton were practically cleaned up yesterday at steady to firm prices.

SULLIVAN DECLARES DIVIDEND.

The Sullivan Packing Co. of Detroit, Mich., has declared a quarterly dividend of 2 per cent on the prefered stock of the company, payable May 1st to stock of record April 22nd.



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Chicago and New York

Official Organ Institute of American Meat Packers and the American Meat 'Packers' Trade and Supply Association

Published Weekly by The Food Trade Publishing Co.

Incorporated Under the Laws of the State of New York)

at the Old Colony Building, Chicago.

Eastern Office, 15 Park Row, New York

Otto V. Schrenk, President.

PAUL I. ALDRICH, Vice-President.

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Old Colony Building, Chicago Telephones Wabash 742 and 743 Cable Address: "Sampan," N. Y.

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NOTICE TO FOREIGN SUBSCRIBERS.

Subscribers to THE NATIONAL PROVISIONER in foreign countries should remember that remittances for subscriptions must take account of the difference in exchange, and must in every case represent \$5,00 in United States money. Compliance with this requirement will save unnecessary correspondence.

You Don't Eat Enough Meat

Effective advertising campaigns depend for their success upon a slogan that hits the consumer right, and sets his mind to working along the lines the advertiser desires. In getting people to realize that they should eat more meat, it does not follow that they will act upon the message if it is presented in just that way. Instead of saying in one's advertising message that the consumer should eat more meat, it would in many cases be more effective to convey the idea that they do not eat enough meat. The Institute of American Meat Packers and other agencies which are trying to promote increased meat consumption by disseminating correct information about this superior food have acted wisely in avoiding the phrase, "Eat More Meat."

This phrase, "Eat More Meat," gives

the consumer the idea that the campaign to stimulate meat consumption may be a scheme to boost sales, increase demand and probably prices. Now this is totally wrong, but it is an idea that many may

hold.

On the other hand, when you say people don't eat enough meat, you convey to them by inference that health and strength demand more meat than they are now eating. No one would get the same idea that they would from the phrase "Eat More Meat."

So it might be a good idea for packers, meat councils and others, when advertising meat and stimulating meat consumption, to use as a slogan now and then "You don't eat enough meat." Try it and see.

Coal Strike and Coal Waste

The lesson in the present coal strike for the meat packer is in bringing home to him the importance of fuel in his industry, and the care that should be taken to see that every pound of energy possible is derived from the coal and that waste is reduced to the minimum. At the present time it is claimed that the average packing plant is not getting the results from coal used that should be got.

A short time ago THE NATIONAL PRO-VISIONER published an article on "Coal Waste in Packing Plants" that aroused much comment in the industry. It was claimed that while a packing plant should run at the rate of 160 pounds of coal per 1,000 pounds of dressed weight, in an average plant cited for illustration 363 pounds of coal were used for the same amount of product. In many packing plants a little over 50 per cent of the coal is said to be wasted.

This situation is no less than startling, and it shows that there is a great field for effort in increasing efficiency of packing-house operation. The remedy here may be to start a system of careful checking. It is not an original suggestion, but it means that those in charge of plants must keep pounding away on the theory that wasteful conditions do exist, and place before the working force continually the fact that waste is always great enough to make it profitable to investigate it.

If there is also co-ordination between departments using actual results to work on, every bit of data, no matter how trivial on the surface, will be available for study by all departments and the results in reduction of coal consumption will be astonishing. For it has been proved possible to reduce coal consumption in some plants as much as from 38 to 68 per cent by very simple means.

There are other ways, of course, that

will have to be used besides testing and checking at regular intervals in order to make the equipment more efficient, such as, for example, heat insulation.

If the coal strike, by the very fact of its existence, without bringing any hardship to the packing industry, can focus the attention of the busy American packing-house operator on this problem, the elimination of coal waste will surely be undertaken and it will be worth while.

Meeting the Export Demand

In recent issues THE NATIONAL PRO-VISIONER has drawn attention to the need for catering to the taste of foreign markets in pork products. One important way to meet the requirements of these markets is to grow a type of hog in the United States that will produce the bacon that the foreign market demands.

In the final analysis it is not the farmers nor promoters of breeds who set the standard for bacon hogs. It is the consumers who are the judges of what constitutes the type to reach a given market. British consumers have taught Canadian breeders and feeders that they must have the breed as well as the feed right. And the Canadians are seeing that they are getting these right.

For example, Canadian bacon is exported in the form of Wiltshire sides. It was found that if the Wiltshire was not of the proper weight, the right shape, with the desired ratio of fat and lean that the British market wants, it cannot bring the best price. This matter was taken up by a government hog conference at Ottawa last November and certain requirements were laid down for catering to the British market. Canadian meat manufacturers are now aiding in giving the British consumer what he wants, as the Canadian packer depends upon this market for his outlet. This is sound business and will enable Canada to come back in profitable hog Production.

There has been much said about the handicap American packers find in Danish bacon. One leading English bacon merchant, however, has recently summed up the matter by pointing out that the only handicap is that the American sides lack uniformity compared with the quality and weight possessed by the Danish. This, he says, is due to the lack of uniformity in the hogs produced in America. When over here we shall produce hogs which make long sides more like the Danish, the only differential in price between the Danish and American bacon will be due to the fact that the American sides must be boraxed to travel the long distance. Otherwise they would sell on a parity.

PRACTICAL POINTS FOR THE TRADE

EXPERT ADVICE.

Answers to questions appearing on this page are prepared with the advice and assistance of the Committee on Packinghouse Practice of the Institute of American Mest Packers. This committee comprises F. J. Gardner, chairman, Swift & Company; Myrick D. Harding, Armour & Company; W. B. Farris, Morris D. Harding, Armour & Company; W. B. Parris, Morris & Company; S. C. France, Wilson & Company; John Roberton, Miller & Hart; Arthur Cushman, Allied Packers, Inc., and James E. Gallagher, Guggenheim Bros., all of Chicago; Geo. M. Foster, John Morrell & Co., Sioux Falls, S. D., and J. J. Cuff, Jacob Dold Packing Co., Buffalo, N. Y.

Packing Co., Buntalo, N. Y.
Readers are invited to submit questions concerning any feature of packinghouse practice on which they desire information or assistance. Criticism or suggestions concerning any matter here discussed are also invited, and will be given careful attention.

Lard Oil Grades

The various grades of lard oil handled by pressers have been reduced to seven well recognized standard grades. Where bayers specify a different standard or test not coming within these grades, quotations ordinarily treat these as special grades. All quotations should carry an unqualified guarantee that the oil is purely an animal

It is also observed that the cloud test has come into more general use and is accepted as more simple and accurate than the cold test. The claim is made that a cloud test may be made within a few minutes from the time the sample is drawn, and that its variation is very slight.

The recognized grades follow:

Prime Lard Oil—A pure oil containing under 2 per cent free fatty acid. This is pressed from prime steam lard and is generally classed as edible.

Extra Winter Strained Lard Oil-This oil as put out by some pressers, contains from 2 to 4 per cent free fatty acid, while others merely specify "less than 3 per cent.

Extra Lard Oil—This grade is universally sold with less than 5 per cent free fatty acid.

Extra No. 1 Lard Oil-Contains from 7 to 10 per cent free fatty acid.

Special No. 1 Lard Oil-This is a grade quoted by only a few pressers and purchased by only a few buyers. It contains from 12 to 15 per cent free fatty acid.

No. 1 Lard Oil-Contains from 15 to 20 per cent free fatty acid.

No. 2 Lard Oil-Contains from 20 to 25 per cent free fatty acid.

HOW TO COVER TONGUE SAUSAGE.

The following inquiry has been received from a Middle West packer:

Editor The National Provisioner:

We intend to use cloth bags for covering our tongue sausage, cooked corned beef and spiced sausage. Please advise us what temperature this meat should be cooked at and how to fill and dip the bags. Will dipping in paraffine destroy the printing on the bags?

To this request the Committee on Packinghouse Practice replies as follows:

In regard to tongue sausage, this term in the packing business is usually applied to sausage made from pork tongues and blood, the tongues being cut up into small pieces. If this is the kind of sausage in mind, we do not believe that cloth bags would be suitable. On the other hand, if whole pressed tongues are referred to, these might be put up in cloth bags, it might be necessary to add some finely chopped meat to act as binder between the tongues. In this case we believe it will be necessary to stuff by hand or, if the tongues were cut up into small pieces. a regular sausage stuffer could be used.

The tongues should first be cooked about an hour to an hour and a half at boiling temperature. After stuffing they should again be cooked for about half an hour at 180 to 190 degrees temperature. After they are perfectly dry, they may be dipped in paraffine which should be heated to about 220 degrees Fahrenheit.

In regard to cooked corned beef, we have never heard of cooked corn beef being put up in cloth bags, although it might be done. The usual way, however, is to pack it in pans and press it after being cooked. Then after chilling it could be sewed in a bag of suitable size dipped in paraffine as described above. The time for cooking will depend on the size of the It should be cooked until perfectly tender.

In regard to spiced sausage, we do not know what is meant by this term, as all sausage contains more or less spice.

Dipping in paraffine will not destroy the printing on the bags.

TOUGH SKIN ON HAMS AND BELLIES.

The following inquiry has been received from a Canadian packer:

Editor, The National Provisioner:

We are having trouble with tough skins on our hams and bellies. What is the trouble in connection with skins being hard on hams and bellies after smoking

We are under the impression that the smokehouse is carried at too high a temperature and too long.

Will you give us a suggestion quoting temperatures on both hams and bellies, and the usual length of time for smoking that is generally accepted?

To this question the Committee on Packinghouse Practice replies as follows:

The skin on smoked ham and bacon will always be more or less tough and hard. the degree of hardness depending on the thickness of the skin. If the meat is smoked longer than is necessary, it will no doubt have a tendency to increase the toughness and hardness of the skin, and, as a general practice, it is not advisable to smoke these meats at a higher temperature than 120 to 125 degrees in the smoking chamber.

The length of time in smoke depends altogether on local conditions and the temperature used, the lower the tempera-ture the longer time required, and vice versa. When the hams and bellies have taken on a uniform and even color they are smoked sufficiently to be taken out of the house.

USING HOG HAIR IN TANKAGE.

The following inquiry has been made recently:

Editor The National Provisioner:
We would like to inquire if hog hair
can be used in tankage. If so, in what
proportion and what effect will it have in
the tankage? We do not have a grinder, but sell our product direct from the dryer.

The Committee on Packinghouse Practice replies as follows:

Hog hair can be used in tankage for fertilizer purposes only. We would suggest cooking the hog hair about eight to nine

In regard to the proportion to use, that all depends on the other ingredients in the tankage, as tankage is usually sold on the basis of 12 per cent ammonia content and hair alone contains about 15 per cent ammonia, the proportion of hair used should be regulated to the balance of the ingre-dients so that the finished tankage will come up to the 12 per cent basis.

It will not be necessary to use any grinder, but the hair should be sent to the dryer after all the water has been drained off the hair after cooking.

GILLETT'S GARLIE SEASONING

for your Sausage and other Prepared Meats

for samples and prices ask

Sherer-Gillett Co. Co. Dept. 3, Clark and 17th Street Chicago

Many large Packers have found my Sales and Service combination profitable to their Casing business. Let me tell you how I can benefit yours. Address

Roy L. Neely

Broker of Casings Exclusively 602 Webster Bldg. Chicago, Ill.

A MILD CURE FOR HAMS.

The following inquiry is from a small Middle West packer:

Editor The National Provisioner:

Kindly favor me with a recipe for mild cure for hams, also a recipe for pumping

To this the Committee on Packinghouse Practice has replied as follows:

There are a great many different formulas for curing hams. The amount of sugar and salt petre, which are the only ingre-dients besides salt which are allowed ac-cording to the U. S. Bureau regulations, varies a great deal.

We suggest a curing pickle containing 275 lbs. of sugar and 50 lbs. of salt petre, or nitrate of soda, per 1,000 gals. of finished pickle 75 to 78 degrees strong.

For pumping brine, to each gallon of 100 degree brine add 10 ozs. of sugar and 12 ozs. of salt petre, or nitrate of soda.

In case nitrate of soda is used, it would be satisfactory to reduce the above quantities of salt petre about 15 per cent.

F. C. ROGERS BROKER

Provisions

Philadelphia Office: 267 North Front Street

New York Office: 431 West 14th Street

PROVISIONS AND LARD

WEEKLY REVIEW

All articles under this head are quoted by the barrel, except lard, which is quoted by the hundredweight in tierces. pork and beef by the barrel or tierce and hogs by the hundredweight.

Trade Quiet-Prices Steady Hog Movement Moderate-Hog Prices Maintained.

It has been another week of unimportant movement in hog values and in product values in the provisions and lard market, with no particular tendency. Hog prices have been averaging around 101/4 to 10%c for some time now. In fact the market for over a month has been between 10.35 and 11c for top hogs with the price the past few days coming about mid-way in this range. As the extreme top of the season was only 11.50, the market is not a great deal under the high levels. There is the same situation in product. market has been very steady, moving during the past month within an extremely narrow range with a slow upward tendency to the rib market. The low point of the movement on ribs was 11.10, with recent quotations as high as 11.70 for the May delivery. In lard, the low point at the beginning of the month was 10.35 for May, prices advancing to 11.10, and then showing some reaction.

The movement of hogs has not been heavy. The receipts for the past week at the six leading points were nearly 40,000 less than the previous week, and 80,000, less than for the corresponding week last year. The decrease in the cattle movement was also a feature, with the total 11,000 less than last year, while the movement of sheep was less than 50% of a year ago, the total at the six points being only 108,000 against 232,000 for the corresponding week last year.

Export Movement is Better.

The export movement of product was again better with the total for the week, 11,841,000 lbs. of lard against 8,365,000 lbs. last year, and meats 10,585,000 lbs. compared with 6,577,000 lbs. the previous week, and 16,451,000 last year.

The situation in the foreign exchange market has been better, excepting the past few days, when there was a rather sharp reaction in rates from the extreme due in part to uncertainty as to the Genoa Conference, and the reported atti-tude of the Russian and German inter-The export interest, however, seems

ests. The export interest, however, seems to be very steady, and like the demand for other foods it is very persistent and comes from a very widespread area.

The advance in May pork the middle of the week to new high levels of the season emphasized the general position of the market situation, together with the strength in ribs and lard. The details of the total cold storage supplies showed that at the high point of the showed that at the high point of the year, or the usual high point, stocks of product of all kinds are only about twothirds of last year, and approximately about two-thirds of the season average for the past five years at this time of year.

Spread Between Hogs and Corn.

The hog packing movement showed a decrease compared with last year of 106,000 hogs. The fact that the high price of hogs compared with the feedstuffs is not bringing a larger movement of hogs, is easy to understand as there has been no time to grow the hogs since the wide

spread in prices developed.

In connection with this, the Bureau of Markets has made a most interesting study of the spread between hogs and

corn from 1905 up to date. There has been a very close paralleling of the price movement of hogs and corn with at times some very wide variations.

In 1910 there was a very wide premium for hogs over corn prices, and again in 1913, while in 1915 and 1916 the prices During the were quite near together. Durin years of the war, the variations years of the war, the variations were pronounced, with corn at times showing big premiums and others big discounts. The discount of corn under hogs is now about the widest of any time during the period excepting in 1918.

Some who have been studying the probable movement conditions are inclined to take, think that effect of the corn prices will not be felt until later in the year, when, it is claimed there will be an increase in the supply of hogs, owing to the larger number of farrowing sows this spring, and this will make a large supply of hogs available for market next fall and winter. The temptation is very great with corn selling below 60c and hogs winter. around 1016c.

Products Stocks Trend Lower.

The tendency of products stocks if they follow the usual movement from this time on, will be towards a slow and fairly steady decrease. If the decrease in stocks is anything like the average de-crease from the high point seen during the past five years, the total supplies of products in the country will be reduced to very limited proportions before the increased movement of hogs, which have been predicted by some, takes place in the fall.

The question is, will the prices for meat products restrict the distribution in such a way as to prevent the usual summer decrease in stocks? A decrease in sup-plies even on the basis of the per cent plies even on the basis of the per cent usually seen instead of the pounds, would also result in greatly reduced supplies later. At the present prices which are prevailing there seems to be no particu-lar cessation of the demand, either for domestic or export account.

The movement of hogs from interior points, as reflected in the shipment of hogs from the interior, indicates a fairly steady eastern demand which is having considerable influence on the average of

western prices. PORK—The market was quiet, both domestic and export. At New York mess was quoted at \$26:@27., family \$27.@28., short clears \$22.50@26. At Chicago cash pork was quoted at \$21.75.

LARD-An inactive demand continued to feature the market, and while there were some export inquiries in evidence, they were reported below a workable they were reported below a workable basis. At New York prime western was quoted at 11.80@11.90c, middle western 11.35@11.45c, New York City 11c nominal, refined to the continent 12%c, South American 13c, and Brazil kegs 14c, with compound 12%@13%c car-lot basis. At Chicago requer level in second lets was greated cago regular lard in round lots was quoted April price, loose lard 70 under May, d leaf lard 9%@10c.

and leaf lard 9%@100.

BEEF — The market continued very quiet with mess at New York \$13.50@14.50, packet \$13.50@15.00, family, \$16.00@17.00, extra India mess \$24.00@26.00.

SEE PAGE 30 FOR LATER MARKETS.

NEW YORK LARD EXPORTS.

Exports of lard from New York from April 1 to April 26, 1922, according to unofficial reports, were 28,347,000 lbs 850,000 lbs., greases 1,709,400 lbs., and stearine, none.

MEAT EXPORTS IN MARCH.

Official reports of exports of meat anu dairy products during the month of March. 1922, show some very interesting increases and decreases, though there were more decreases as compared with the same month last year. Among the increases noted was pickled beef, which showed an increase from March, 1921. Oleo oil increased from 8,348,238 pounds in March, 1921, to 10,158,-717 pounds in March, 1922, and an increase for the nine months ending with March, from 71,097,804 pounds in 1921 to 82,969,-011 pounds in 1922. Pickled pork increased from 1,941,914 pounds in March, 1921, to 2,953,442 pounds in March, 1922. Hams and shoulders increased from 19,102,633 pounds in March, 1921, to 23,583,142 pounds in March, 1922.

On the other hand there were many decreases. For example, canned beef decreased from 504,356 pounds in March, 1921, to 280,496 pounds in March, 1922, and for the nine months from 9,906,518 pounds to 3,087,224 pounds. Fresh beef likewise had a big drop, both for March and for the nine months, being cut down from 20 to 3 million pounds. Other decreases were in bacon, which fell from 35,349,123 pounds 3 million pounds. in March, 1921, to 31,180,274 pounds in March, 1922, and declined 100 million pounds for the nine months' period.

Exports for the months of March, 1922, and March, 1921, are compared as follows:

and march, 1921, are con	mpared as	tonows:
Beef. canned, lbs	280,496	504,356
Value	\$113,317	\$94,338
Beef, fresh, lbs	293,092	508,230
Value	\$44,704	\$86,116
Beef, pickled, etc., lbs	2,797,515	2,246,547
Value	\$286,020	\$311.510
Oleo oil, Ibs	10,158,717	8,348,238
Value	\$1,059,759	\$976,525
Pork, fresh, lbs	910,504	2.964.420
Value	\$135,642	\$528,539
Pork, pickled, lbs	2,953,442	1.941.914
Value	\$358,992	\$279.863
Bacon, lbs	31.180.274	35,349,123
Value	\$4,940,486	86,987,661
Hams and shoulders, lbs	23,583,142	19,102,633
Value	\$4,734,170	\$3,877,974
Lard, lbs	64,377,381	82,616,583
Value	\$7,866,564	\$11,513,368
Neutral lard, lbs	1.255.8:0	1,066,91
Value	\$155.950	\$157,97
Sausage, canned, lbs	117,395	315,298
Value	\$33,778	\$112.88
Lard compounds (containing	4001110	4112,000
animal fats), lbs	1,573,227	4,211,31
Value	\$185,833	\$467,77
Margarine (animal fats), lbs.	151,964	461.85
Value	\$26,374	\$101,88
Lard compounds (vegetable	\$20,01X	\$101,00
fats), lbs.	3,640,902	
Value	\$400,107	
Margarine (vegetable fats).	6200,101	
	16,324	
lbs	3.394	*******

Exports for the nine months ending March, 1922, with comparisons, are given

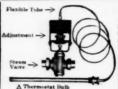
as follows:		
		9 mos. ending
2	darch, 1922.	March, 1921.
Beef, canned, lbs	3,087,224	9,905,518
Value	\$762,845	\$2,287,772
Beef, fresh, lbs	3,367,192	20,540,126
Value	8447,451	\$3,602,092
Beef, pickled, etc., lbs	20,279,015	18,092,944
Value	\$1,803,047	\$2,420,778
Oleo oil, lbs	82,969,011	71,097,804
Value	\$8,931,906	\$11,798,324
Pork, fresh, lbs	22,183,245	47,892,085
Value	\$3,236,722	\$9,559,495
Pork, pickled, lbs	26,301,279	25,384,409
Value	\$3,044,080	\$4,390,794
Bacon, lbs	286,908,626	382,970,277
Value	\$41,354,940	
Hams and shoulders, lbs	192,336,580	
Value	\$37,880,690	\$28,210,575
Lard, lbs	661,854,423	576,621,728
Value	\$76,762,465	\$111,470,868
Neutral lard, lbs	15,418,393	16,440,791
Value	\$1,900,952	\$3,453,624
Sausage, canned, lbs	1,428,300	
Value	\$453,142	
Lard compounds (containing	*	,-,
animal fats), lbs	26,297,888	28,773,702
Value	\$2,994,756	
Margarine (animal fats), lbs.	1.579.845	
Value	\$287,772	
Lard compounds (vegetable		4-10-11-0
fats), lbs		
Value		
Margarine (vegetable fats),		
The state of the s		

ProperTemperature Necessary In Hog Scalding

In hog scalding, hand regulation frequently results in over-scalding or under-scalding, and consequent mutilation of skins. Even the most constant watchfulness on the part of employees cannot prevent these accidents when the temperature is controlled by hand.

Powers Automatic Thermostatic Regulators

These automatic machines control the temperature control the temperature without material variation. The sensitive thermostatic bulb which is immersed in the water keeps the heat at the proper degree. Powers Regulators are easy to in-stall, do not require further attention, and maintain the proper temperature, thus al-lowing the employee to devote his entire time to productive work.



The Powers
Regulator No. 11
Automatic. Reliable. Accurate.
Can be set for the desired temperature and varied at will within a range will within a range of 40 degrees. Easily applied. Put thermostat bul b in liquid to be controlled and valve in steam supply.

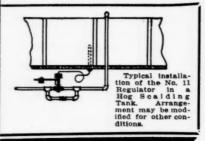
TRY ONE

Try one of these Regulators Try one of these Regulators on the operation where lack of heat control causes you the most trouble. Anyway, get our Bulletin 129 and learn how practical heat control adds to the profits in Meat Packing.

HE POWERS REGULATOR

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MEAT SUPPLIES AT NEW YORK.

Receipts of western dressed meats and local slaughters under federal inspection for New York City, N. Y., are officially reported for the week ending April 22. 1922, with comparisons, as follows:

Western dressed meats: Steers, carcasses		ending April 15. 5.304
Cows, carcasses		374
Bulls, carcasses	67	708
Veal, carcasses	10,740	12,320
Lamb, carcasses	496	23,997
Mutton, carcasses	18,882	5,590
Pork, pounds	4,610	451,093
Local slaughter, Federal inspection:		
Cattle	725,856	7,905
Calves		18,856
Hogs	42,078	43,344
Sheep	27,629	30,856

MEAT SUPPLIES AT PHILADELPHIA.

Receipts of western dressed meats and local slaughter under city and federal inspection at Philadelphia, Pa., are officially reported as follows for the week ending April 22, 1922, with comparisons:

Western dressed meats:	Week ending April 22.	Week ending April 15.
Steers, carcasses		1,992
Cows, carcasses	364	425
Bulls, carcasses		115
Veal, carcasses	1,923	2,513
Lambs, carcasses	3.782	5,705
Mutton, carcasses	972	1:199
Pork, Ibs	570.458	439,107
Local slaughter:		
Cattle	2.368	1,733
Calves		2,625
Hogs	7.140	5,738
Sheep	14,402	15,488

MEAT SUPPLIES AT BOSTON. Receipts of western dressed meats and slaughter under federal and city inspection at Boston, Mass., are officially reported as follows for the week ending April 22, 1922, with comparisons:

Western dressed meats:	Week ending April 22.	Week ending April 15
Steers, carcasses		2.2021/
Cows, carcasses		1,205
Bulls, carcasses	. 25	57
Veal, carcasses	. 1,347	1.231
Lambs, carcasses	. 7,924	7,760
Mutton, carcasses	. 228	472
Pork, lbs	.152,818	233,504
Local slaughter:		
Cattle	. 1.188	1.042
Calves	. 4.684	5,199
Hogs	. 11,407	13,585
Sheep		4.802

WANTED: A PORK PACKING EXPERT.

Packers who are seeking to strengthen their operating departments will find this a splendid time to do so. Not in years have so many high-class men been available, and at reasonable terms. Fly a "Want" ad. in THE NATIONAL PRO-VISIONER and see what quick results you

CANADIAN HOG MARKETS.

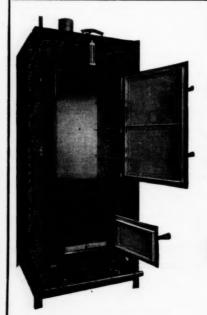
Sales of hogs at chief Canadian centers for the week ending April 20, 1922, are reported as follows by the Market of Intelligence Division of the Dominion Department of Agriculture with top prices for selects, as compared to a week and a year

ago:					
	-Sales		-Top	price se	elects-
Week			Week		
ending	week.	ending	ending	week.	ending
			Apr. 20.		
Toronto (U.					
S. Y.)6,747	5,876	6.563	\$13,50	\$12.75	\$14.00
Montreal (Pt.					,
St. Chs.).2,695	1,562	1.854	14.50	15.00	14.50
Montreal (E.					
End) 649	840	1,122	14.50	15.00	14.50
Winnipeg .2.064	2.102	2.870	12.60	13.50	13.00
Calgary1.251	700	1.407	11.35	13,40	11.25
Edmonton . 784	969	630	11.00	13.00	11.00
Prince Albert		43			11.75
Moose Jaw. 466		136	12.50		12.35

EXPORTS OF PROVISIONS.

Exports of provisions from the Atlantic and Gulf ports for the week ending April 22, 1922, with com-

parisons:		,
PORK, BE	BLS.	
Week	Week	From Nov. 1.
ended Apr.	ended Apr.	1921, to Apr.
22, 1922.	23, 1921.	22, 1922.
United Kingdom 85		2 193
Continent 465	175	3,749
So, and Cent. Amer		1,037
West Indies		5,585
B. N. A. Colonies	******	430
Other countries	* * * * * * * *	535
Total 550	175	14,529
BACON AND HA	MS. LBS.	
United Kingdom 3,687,000	7,986,500	189,172,000
Continent2,245,000	2,451,000	43,743,500
So. and Cent. Amer.	2,101,000	1,008,321
West Indies		6,416,693
		61.800
Other countries 25,000		655,153
Total5,950,000	10,437,500	241,057,467
LARD, LI	BS.	
United Kingdom 3,072,761	6,491,800	135,166,651
Continent4,690,600	5,183,804	153,572,934
So. and Cent. Amer		1,057,070
West Indies 729,000	302,000	10,156,024
B. N. A. Colonies		129,000
Other countries		523,600
Total8,492,361	11,977,604	300,605,279
RECAPITULATION OF THE	WEEK'S	EXPORTS.
Pork.	Bacon and	
From— lbs.	hams, lbs.	Lard, lbs.
New York 550	4,384,000	7,287,761
Portland, Me	1,299,000	95,000
Boston	1,200,000	325,000
Philadelphia		131,000
New Orleans		654,000
St. John, N. B	274,000	004,000
woman.		
Total, week 550	5,957,000	8,492,761
Previous week1,305	7,786,500	8,742,933
Two weeks ago2,387	10,894,323	8,096,237
Cor. week, 1921 175	10,437,500	11,977,604
Comparative summary of agg from Nov. 1, 1921, to April 22 1921 to 1922.	regate expe	orts, in lbs
1921 to 1922.	1920 to 192	1. Decrease.
Pork 2.905.800	6,039,000	
Bacon and hams 241,057,467	274,394,894	
Lard300,605,279		103,444.807



BRAND'S STEEL

Smoke House

Suitable for Smoking Hams, Bacon, Shoulders, Tongues, Sausage, Bologn a Etc. Does Twice the Work with Half the Effort. Gas and Sawdust Used.

BUILT TO LAST

M.BRAND&SONS

Manufacturers

First Ave. and 49th St. NEW YORK

TALLOW, STEARINE, GREASE AND SOAP

WEEKLY REVIEW

TALLOW.-While the market was quiet most of the week, sales were reported on Wednesday of 100 drums of extras at New York at 6%c, a decline of %c from the Soan interests were previous close. credited with buying at the decline. The undertone was barely steady, but sentiment in the trade continued quite mixed. At Liverpool Australian tallow was un-changed from a week ago with choice at changed from a week ago with choice at 39 shillings, while good mixed was unchanged at 38s 6d. No London auction has been reported the past two weeks. At New York prime city was quoted at 5¼c nominal, special loose at 6¼c nominal, extra 6¾c, and edible 8c nominal. At Chicago packers' No. 1 was quoted at 6@6¼c, packers' prime 6¾@7c, and edible 7¼@7½c, with trade only moderate and prices rather steady.

OLEO STEARINE.—The market has

and prices rather steady.

OLEO STEARINE.—The market has been very inactive with no compound interest in evidence. Compound trade remained very dull, and the undertone to the stearine market is barely steady. At New York oleo was quoted at 8%c. and at Chicago 8½@9c. Lard stearine at Chicago was 12½@13c, and at New York 12½@13c nominal.

OLEO OIL.—The market continued very quiet with no new feature in evidence

very quiet with no new feature in evidence and with prices about unchanged with extra oleo at 10@101/4c nominal, medium inal. At Chicago extra was quoted at 9% @10% c.

SEE PAGE 89 FOR LATER MARKETS.

LARD OIL.-Operations in lard oil continue on a small scale, but the undertone is steady due to the action in pure lard. At New York edible was quoted at \$1.10

At New York edible was quoted at \$1.10 per gallon, extra winter 92c, extra at 85c, No. 1 at 72c, No. 2 at 70c.

NEATSFOOT OIL.—The market continues firm but dull owing to the absence of offerings. Pure oil at New York was quoted at \$1.38@1.40 per gallon, No. 1 at 77c, No. 2 at 72c, and cold pressed at \$1.50@1.55. \$1.50@1.55

GREASES .- No important transactions have been reported, but the market, nevertheless, is quite steady with offerings not pressing. At New York yellow and choice house were quoted at 54@ 5½c nominal, brown at 4¾.@5c, and house at 7½.@8¼c nominal. At Chicago trade was fair, with brown and house 4¾.@5c, yellow 5¼.@5½c, and choice white at

CANADIAN MUTTON MARKETS.

Sales of sheep and lambs at chief Canadian centers, with top prices for good lambs, compared to a week ago and year ago, are reported by the Markets Intelligence Division of the Dominion Department of Agriculture for the week ending April 20, 1922, as follows:

_		-Sales		Top pr	ice god	od lambs
Ar Ar	Week ading or. 20.	Same week.	Week	Week ending	Same week,	Week ending Apr. 13,
Toronto (U.						
S. Y.)	438	523	380	\$16.00	\$14.00	\$15.00
Montreal (Pt						
St. Chs.).	157	218	152	11.00	13.00	11.00
Montreal E.						
End)	57	28	152	11.00	13.00	11.00
Winnipeg .	383	22	29	15,00	11.00	
Calgary	302	413	773	12.00	10.00	12.00
Edmonton .	48	205	36	10.50		10.00
Prince Albert						
Moose Jaw.			67			
			-0-	-		

CANADIAN CATTLE MARKETS.

Sales of cattle and calves at chief Canadian centers with top prices for selects, compared to the same time a week ago and a year ago are reported as follows by the Markets Intelligence Division of the

Dominion Department of Agriculture for the week ending April 20, 1922;

	C.	ATTLE.			
					d steers
			(1,000		
		Week			
		ending			
Apr. 20.	1921.	Apr. 13.	Apr. 20	. 1921.	Apr. 13.
Toronto (U,					
S. Y.)5.267	4.865	2,611	\$9.00	\$10.50	\$8.75
Montreal (Pt.					
St. Chs.), 147	568	455	7.75	10.75	8,30
Montreal (E.					
End) 141	297	312	7.75	10.75	8.30
Winnipeg .1.820	1.46)	2,468	8.25	9.00	7.00
Calgary 942		444	5.85	7.25	5.85
Edmonton . 849			6.50	7.50	6,00
Prince Albert		2			
Moose Jaw. 216			6.50		
	C	ALVES.			
	-Sales		Top pr	ice goo	d calves
Week		Week	Week	Same	Week
ending	week.	ending	ending	week.	ending
			Apr. 20	. 1921.	Apr. 13.
Toronto (U.		noper no			
S. Y.)2,603	1.951	2,743	\$12.00	\$14.00	\$14.00
Montreal (Pt.	.,	-,,,,,,	4.44	4	4
St. Chs.).2.031	1.765	2,323	8.00	7.50	7.50
Montreal (E.	1,100	2,020	0.00	1.00	4
End)1.557	1,751	1.635	8.00	7.50	7.50
Winnipeg . 202	180	393	11.00	14.00	
Calgary 112	55	42	7.50	7.50	
Edmonton . 48	29	30	8.00	12.00	
	20			12,00	
Prince Albert Moose Jaw. 20		4	9.00		
Mouse Jaw. 20			0.00	* * * *	10.07
			-		

GREEN AND SWEET PICKLED MEATS. (Special Letter to The National Provisioner from the Davidson Commission Co.)

Chicago, April 26.—Quotations in green and sweet pickled meats, f. o. b. Chicago, loose, are as follows:

Regular Hams-Green, 8-10 lbs. avg., Regular Hams—Green, 8-10 los. avg., 24%c; 10-12 lbs. avg., 24%c; 12-14 lbs. avg., 24%c; 16-18 lbs. avg., 23%c; 18-20 lbs. avg., 23%c; Sweet pickled, 8-10 lbs. avg., 24%c; 10-12 lbs. avg., 24%c; 12-14 lbs. avg., 24%c; 14-16 lbs. avg., 23%c; 18-20 lbs. avg., 23%c; 18-18 lbs. avg., 23%c; 18-20 lbs. avg., 29%c; 18-20 lbs. 16-18 lbs. avg., 223/4 c; 18-20 lbs. avg., 221/2 c. Skinned Hams—Green, 14-16 lbs. avg.,

26c; 16-18 lbs. avg.. 25%c; 28-20 lbs. avg., 25½c; 20-22 lbs. avg., 25c; 22-24 lbs.avg., 24½c; 20-22 lbs. avg., 24½c; 16-18 lbs. avg., 24½c; 18-20 lbs. avg., 24½c; 20-22 lbs. avg., 23½c; 22-24 lbs. avg., 23½c; 20-22 lbs. avg., 12¼c; 8-10 lbs. avg., 11½c; 6-8 lbs. avg., 11½c; 8-10 lbs. avg., 11c; 10-12 lbs. avg., 10¾cc. Sweet pickled, 4-6 lbs. avg., 11½c; 10-12 lbs. avg., 11½c; 8-10 lbs. avg., 11½c; 10-12 lbs. avg., 11c. Clear Bellies—Green, 6-8 lbs. avg., 22c; 8-10 lbs. avg., 18½c; 10-12 lbs. avg., 16c; 12-14 lbs. avg., 13½c; 14-16 lbs. avg., 18½c; 8-10 lbs. avg., 17c; 10-12 lbs. avg., 18½c; 8-10 lbs. avg., 17c; 10-12 lbs. avg., 16c; 12-14 lbs. avg., 13½c; 14-16 lbs. avg., 16c; 12-14 lbs. avg., 13½c; 14-16 lbs. avg., 16c; 12-14 lbs. avg., 13½c; 14-16 lbs. avg., 12½c.

FOREIGN EXCHANGE SITUATION.

Editor's Note.—This statement is prepared weekly by the Institute of American Meat Packers from information obtained from The Merchants' Loan & Trust Company, Chicago, Illinois.

Monetary	Par value in	Value on
Country. unit. I	J. S. money.	April 27.
Country. unit. U Austria—Krone	\$.203	\$.000140
Belgium-Franc	193	.0849
Czecho-Slovakia-Krone	*	.0196
Denmark-Krone	268	.2125
Finland-Finmark		.0211
France-Franc	193	.0923
GermanyMark	238	.0035
Great Britain-Pound	4.866	4.43
GreeceDrachma		.0450
Italy-Lira		.0534
Japan—Yen	498	.4750
Jugo-Slavia-Krone	*	.0037
Netherlands-Florin	402	.3807
Norway-Krone		.1893
Poland-Polish Mark		.000270
Roumania-Leu		.0072
Russia-Rouble		
Servia-Dinar		.0146
Spain-Peseta	193	.1555
Sweden-Krona	268	.2595
Switzerland-Franc		.1946
Turkey-Turkish Pound		

*No par of exchange has been determined upon and will probably not be fixed until after the Aliles have decided upon all of the requirements from those countries.

Packinghouse By-Products Markets

Blood.

Chicago, April 27, 1922. The market is very quiet and there do not seem to be any buyers at all.

1.00 .50	cm to be	11113	Dus	O. D	 Unit ammonia.
Ground					 \$3.00@3.25
Crushed	and ungr	ound.			 2.50@2.75
Ground	concentrated	tank	age.		 2,75@3.00
T'recommence					9 95609 50

Digester Hog Tankage Materials.

The tendency of the market in digester still downward as buyers are not inclined to take on any materials until they get orders for digester. There were reports of sales of high grade ground suitable for feed at \$3.25 Chicago.

					Unit	ammonia.
Ground,	111/2	to	12%	ammonia	8	2.90@3.15
Unground	d. 10	to	11%	ammonia		2.50@2.75
I'mormous	3 7	40	Oct.	mmonia		9 50619 75

Fertilizer Tankage Materials.

This market is very quiet and no sales have been recorded in the last few days. There was, however, an inquiry for low grade unground.

	Unit ammonia.
High grade, ground, 10-11% ammonia	\$2,30@2.50
Lower grade, unground, 6-9% ammonia	1 2.00@2.15
High grade, unground	2.00@2.20
Medium grade, unground	1.75@1.90
Low grade and country rend., ungrou	nd 1.50@1.65
Bone tankage, unground	1.50@1.75
Hoof meal	2.10@2.25
Liquid stick	1.75@2.00
Hair tankage, dry, unground	1.00@1.25
Garbage, tankage, ground	75@1.00

Bone Meals.

Bone meals have been very inactive. One car of 3 and 50 graded steamed bone in bags sold at \$26 per ton Chicago.

	Per t	on.
Raw, bone meal	\$28.00@	30,00
Steamed, ground	22.00@	24,00
Steamed, unground	14.00@	16.00
Grinding hoofs, pig toes, w	vaste bones, dry 20.00@	22.00

Cracklings.

There has been little inquiry, but the market is in an easy position Buyers are taking another stand and are buying only

at their own figures and are not scrambling for cracklings.

Per ton. Pork, according to grease and quality...\$55,006415,00 Beef, according to grease and quality... 40.006445,00

Glue and Gelatine Stocks.

This market also has been very quiet this week. Glue bones, it is true, have been a little stronger and a sale of prime stock jaws, skulls and knuckles can be made at \$26@27.

	Per ton.
Calf stock	\$35.00@40.00
Edible pig skin strips	55.00 @ 60.00
Rejected manufacturing bones	45.00@50.00
Horn piths	25.00@30.00
Cattle jaws, skulls and knuckles	26.00@30.00
Junk and hotel kitchen bones	20,00@23.00
Hog, calf and sheep bones	22.00@24.00
Sinews, pizzels and hide trimmings	18.00@20.00
Sheen trimmings	

Horns, Hoofs and Mfg. Bones.

Manufacturing bones of standard quality are about the same as last week. Heavy round shin bones have sold at \$115 per ton, Chicago, in double export bags for shipment to Europe.

					Per ton.	
No. 1	horns.				\$235.00@255.0	00
No. 2					175.00@215.	
No. 3	horns.				100.00@150.	æ
Culls					25.00@ 30.0	90
Hoofs.	black	and st	ripped.		22.00@ 24.0	90
Round	shin b	ones, t	nassor	ed, heavi	es. 60.00@ 65.0	00
Round	shin t	ones.	massor	ted, light	s 50.00@ 55.	00
				d. heavie		m
				d. lights.		00
				heavies		H
				lights		00

Hog Hair.

The market for hog hair is still exceedingly quiet and during the past week one of the big buyers has withdrawn from the market. The quotations are \$25@28 ton delivered at buyers' shipping points.

Pig Skin Strips.

Again this market has no new developments. Buyers' ideas on edible are still 14 cents to 3½ cents per pound.

Boost Margarin to Offset Tariff Loss

Plans for a nation-wide campaign to increase the use of oleomargarine are under consideration, as announced from the office of the Interstate Cottonseed Crushers' Association at Washington, D. C., by Louis N. Geldert, director of publicity.

It was stated that the adoption of such plans would probably be necessary if Congress passes certain tariff legislation in the pending tariff bill, which the cotton oil people advise against. They say such legislation will destroy their entire export business, thus rendering necessary the widening of domestic edible channels, in order that the surplus of cottonseed oil thrown upon the domestic markets by stoppage of exports may be absorbed at values somewhere near comparable to those obtaining when the oil is sold for edible usage to Europe.

The plans discussed include national advertising in magazine, daily newspapers and billboard and street car advertising. All manufacturers of oleomargarine from cottonseed oil would be invited to participate. The campaign would acquaint the public with the valuable qualities of oleomargarine, and the saving derived from

its use in place of butter by housewives.

The tariff legislation which the cottoneed crushers fear embodies duties on foreign vegetable oils, which, they state, are now largely used in industrial channels in America, but if shut out of this country by tariffs will go to Europe where they will be manufactured into edible products to the exclusion of American cottonseed

They believe foreign vegetable oils should be retained on the free list, as in previous tariff bills. The great exportable surplus of edible oils and fats, such as hog lard, cottonseed oil, oleo oil and corn oil, produced in this country banishes any hope of tariffs ever being realized upon, leaving only the boomerang effects or such duties to be considered.

It is pointed out that since the passage of the emergency tariff, which carried duties on foreign vegetable oils, exports of cottonseed oil declined to less than 5,000,-000 lbs. in January, 1922, as against over 66,000,000 lbc. in January, 1921, and slightly over three and one-half million pounds in February, 1922, as compared to over 35,000,000 pounds last year in February.

crude oil, equivalent to 308.3 lbs. per ton, or 15.4 per cent compared to 16.0 per cent last year. REFINED OIL. —Pounds produced—

On hand beginning of season August, 1921 February, 1922 March	1921-22. 228,263,633 30,172,028 98,120,637 86,495,130	1920-21. 297,741,580 11,020,195 141,412,864 144,182,229
Total for season	967,285,065	1,169,684,628
August, 1921 February, 1922 March	Delivered 1921-22, 103,199,289 84,277,627 76,025,588	consumers. 1920-21. 78,069,028 98,534,785 110,209,346
Total for season	667,692,084	301,390.727
On hand beginning of season August, 1921 February, 1922	stock 1921-22. 228,263,633 —73,027,261 +13,843,010	or decrease on hand. 1920-21. 297,741,580 -67,048,833 +42,878,079
March	+10,469,542	+33,972,883
August, 1921 February, 1922 March	1921-22. 155,236,372 289,123,439	nd of month, 1920-21, 230,692,747 334,321,018 368,293,901
DISTRIBUTION OF REF		HOLDINGS. 2. Mar. 31, '22.
At refineries260,889,6	Lbs. 079 273,323,4 350 8,374,7	Lbs. 32 287,350,389 70 7,302,866
Total275,280,	129 289,123,4	39 299,592,981
AVERAGE REI		

AVERAGE REFINING LOSS.

During August, 1921. 33,645,988 lbs. crude oil yielded 30,172,028 lbs. refined oil—10.33 per cent loss compared to 28,66 per cent loss last year.

During February, 1922, 107,275,087 lbs. crude oil yielded 98,120,637 lbs. refined oil—8.54 per cent loss compared to 6.12 per cent loss last year.

During March 94,505,576 lbs. crude oil yielded 86,495,130 lbs. refined oil—8.48 per cent loss compared to 7.45 per cent loss last year.

Total—801,636,717 lbs. crude oil yielded 739,021,432 lbs. refined oil—7.81 per cent loss compared to 8.21 per cent last year.

		(Note C.)		
August, 1921 February, 1922 March	1921-22. 4,688,123 3,546,072 4,080,058	1920-21. 2,509,547 35,321,574 28,138,936		
Total for season	40,121,985	198,624,206		
August, 1921 February, 1922 March Total for season	1921-22. 98,511,166 80,731,555 71,945,530	c pounds— 1920-21. 75,559,481 63,213,211 82,070,410 602,766,521		
August, 1921 February, 1922 March	1921-22. 103,199,289 84,277,627 76,025,588	pounds————————————————————————————————————		

801,390,727

Total for season667,692,084

REFINED OIL-Summary in be		400 pounds.
Old crop stock August February, 1922 March Total for season	1921-22. 570,659 75,430 245,302 216,238	1920-21. 744,354 27,556 353,533 360,456
August, 1921 February, 1922 March Total for season	257,998 210,694 .190,064 1,669,230	246,336 275,524
August. 1921 February. 1922 March	1921-22. 388,091 722,809 748,983	835,808 920,738
Total for season	748,983 1921-22.	920,730
Seed on hand will produce Crude oil on hand will produce at 9 per cent refining loss Seed still to be received will produce	73,067 136,702	220,530 373,843
Total	958,752	1,751,50
Less approximate minimum car- ryover for end season Aug. 1, 1922 (Note D)	400,000	\$686,01
Available for coming 4 mos.	558,752 1921-22.	
Monthly average consumption for first eight months Monthly average consumption	1208,654	‡250,43k
for last four months Monthly average consumption	†139,688	1274,02
for all twelve months	†185,665	\$258,29

NOTE D—We have reduced from 500,000 to 400,000 barrels the amount of oil to be carried over this season, as same seems to be more in line with probability.

COTTON OIL SITUATION ANALYZED.

An analysis of the cottonseed oil situation for the months of August, September, October, November, December, 1921, January, February and March, 1922, with comparisons for the previous season of 1920-1921, based on the federal census reports, taking in the seed, the crude oil and the refined oil statistics, has been prepared by Aspegren & Co., and makes a very interesting study. It is as follows:

MOVEMENT OF COTTON SEED AT CRUDE OIL

MILLS.	Tons	eceived-
	00 001	20.004
On hand beginning of season.	99,821	30,084
August, 1921	130,330	22,938
February, 1922	135,641	434,430
March	65,107	30,084 22,938 434,430 340,348
Total for season	2,950,079	3,830,427
	-Tons	crushed
	1921-22	1920-21
August, 1921	107 161	20,000
August, 1921	007 110	400 480
February, 1922	014 011	1920-21. 20,099 496,486 461,979
March		
Total for season		3,525,628
		or decrease
	STOCK	on hand
On hand beginning of season. August, 1921 February, 1922 March	1921-22.	1920-21,
On hand beginning of season.	99,821	30,084
August. 1921	+23,169	+ 2,839
February, 1929	-161.477	-62,203
March	-149.814	-121.631
	On hand er	d of month.
	1991.99	1920-21
August 1001	199 000	29 022
August. 1921	010 070	494 557
rebruary, 1922	107.050	200 020
August, 1921 February, 1922 March	107,008	302,320
Seed receipts at crude mills so season 1921-22On hand beginning of season.	for	Actual tons.
seen receipts at creat miles so	9 850 95	8 4,125,063
Or hand heatming of sonoon	00.69	1 30,084
Total	2.950.07	9 4.155,147
Of which so far crushed	9 840 43	1 3 525 628
Destroyed of mill	9.50	0 1 873
Destroyed at mill	107.05	0 909 096
seed on nand	107,00	002,320
Seed still to be received (Note	t 300 lbs. c	rude oil per
ton is equivalent to 32 117.40	hs. crnde	oil, which
ton is equivalent to 32,117,40 at 9 per cent refining loss eq	nale 29 226	834 lbs. re-
fined oil, or 73.067 barrels.	uuis 20,220,	10s. 1C
NOTE A-As the quantity	of seed st	ill to come
will be negligible and there	is no way	y to figure
accurately what the amount w	ill be, we w	ill not esti-
mate what is still to come it	hat we r	will nee the

accurately want the amount will be, we will not esti-mate what is still to come in, but we will use the actual receipts at mills for each month during the remainder of the season as shown by government

MOVEMENT OF CRUDE	OIL AT CRUDE OIL
MIL	
	-Pounds produced-
	1921-22. 1920-21.
On hand beginning of season	8.908.066 11.040.625
August, 1921	
February, 1922	
March	
Total for season	884,584,268 1,137,104,471
	Shipments
	1921-22. 1920-21.
August, 1921	29.947.251 7.659.034
February, 1922	114,579,405 145,325,584
March	
Total for season	839 789 651 ±1.109 637 501

*			
		or decrease	
	stock o	n hand.	
	1921-22.	1920-21.	
n hand beginning of senson	8,908,066	11.040.625	
August, 1921	316.855	-2.666.329	
ebruary, 1922	-23,258,188	$\pm 17.278.859$	
March	- 4.259.775	- 8,430,460	
		nd of month.	
	1921-22.	1920-21.	
August. 1921	8,591,211		
Sebruary, 1922			
March	44,795,217	127,432,495	
†Does not include 34,475 pc	ounds destro	yed at mills.	
DISTRIBUTION OF CRU	DE OIL H	OLDINGS.	
Jan.	31, Feb. 2	8, Mar. 31,	

DISTRIBUTION OF	CRUDE	OIL HOLI	DINGS.
At mills	1922. Lbs. 72,313,180	Lbs. 49,054,992	44,795,217
At refineries			
Total	oil at 9 1	per cent re	fining loss

CONSUMPTION OF CRUDE OIL AS CRUDE OIL.

January. February. March. Lbs. Lbs. Lbs.

At renneries Degin-		
ning of season 4,346,848	4,346,848	4,346,848
In transit beginning of season 5,507,880	5,507,880	5,507,880
Shipped from crude mills up to last day of month in-	,,,,,,,	
dicated648,713,165	763,292,570	839,789,051
Total accountable		
for	773,147,298	849,643,779
Used in refining599,853,054	707,131,141	801,636,717
Left to account for 58,714,839 Of which on hand	66,016,157	48,007,062
at refineries and in transit 25,982,096	20,897,009	15,293,776
Disappearance dur- ing season up to	,	
last day of month	47 110 140	400 749 000

32,732,743 45,119,148 †32,713,286 Consumed in U. S. A. as crude..... 8,785,568 15,620,671

†Today's Census Report's figures indicate a reap-pearance of 12,405.882 pounds crude oil which pre-viously were reported as having disappeared, namely consumed or exported. It evidently corrects a pre-vious error in calculating the weight by measurement. EDITOR'S NOTE-The previous analysis appeared the issue of April 1, 1922.

CRUSH PER TON.

During August, 1921, 107,161 tons seed produced 29,630,396 lbs, crude oil, equivalent to 276.5 lbs. per ton, or 13.8 per cent compared to 12.4 per cent last year.

During February, 1922, 297,118 tons seed produced 91,321,217 lbs. crude oil, equivalent to 307.4 lbs. per ton, or 15.4 per cent compared to 16.4 per cent last year.

year.

During March 214,911 tons seed produced 72,236,706
lbs. crude oil, equivalent to 336.1 lbs. per ton, or
16.8 per cent compared to 16.2 per cent last year.

Total—2,840,631 tons seed produced 875,676,202 lbs.

VEGETABLE OILS

THE NATIONAL PROVISIONER is Official Organ of the Interstate Cottonseed Crushers' Association, the Texas Cottonsee Crushers' Association, South Carolina Cottonseed Crushers' Association, the Georgia Cottonseed Crushers' Association and the Mississippi Cottonseed Crushers' Association.

Market Narrow-Undertone Firm - Interest Limited-Price Changes Small-Cash Trade Unimproved-Lard Steady -Crude Oil Nominal-Cotton Reports Mixed-

Trading in'cottonseed oil futures on the New York Produce Exchange was again small in volume, and while prices backed and filled within a narrow range, there were no particularly new developments in the situation. In most quarters the tendency to await developments continued, and as a result of the small commission house interest, the market was influenced somewhat by the trend of lard prices, with the local element operating cautiously on both sides.

Toward the middle of the week there was evidence of speculative evening up in the May position before first May delivery day, which was Thursday, although it was generally felt that no important amounts of oil would be tendered on contracts. Sentiment, while mixed, remains friendly for the long pull, based entirely on the statistical position, and the ideas that no mat-ter what the cash demand may be the balance of the season, there will be sufficient disappearance to make for very small supplies of old oil on hand by the time new oil begins to move.

Look to Statistical Position. Whether or not the statistical position will be the feature a month or two hence remains to be seen. It would appear as though by that time the new crop outlook will be taken into consideration, and with some very reliable cotton interests looking for the largest cotton acreage in history, the new cotton outlook will be extremely important, particularly should an average season be had, and a record oil crush for the new season be indicated. While a great many feel that it is a little too early to begin talking new crop, the far-sighted ones are beginning to anticipate what might develop later on should the boll-wee vil activities prove less extensive this year, on a record acreage, and with the tariff barrier which has practically eliminated the cotton oil export trade.

There is no question but what important sections of the belt have been experiencing too much wet weather for planting and seeding, and some re-planting has been necessary, due to flood and other conditions, but nevertheless the ground is being supplied with sub-soil moisture which will probably prove beneficial later

on.

The market the past week has been anxiously awaiting the clearing up of the May position, and the majority of the local interests will be glad when May is out of the way. The recent talk of congestion has been partly responsible, it is believed, for the inactivity in the worker in the for the inactivity in the market, in that the outside interest evened up and made

but few new commitments, while refiners' activity was limited owing to the holding off attitude of the consuming trade.

Compound Has Been Easier.

Compound was easier at 12¾@13¾, while New York City lard was around 11c, prime western 11.80@11.90c, and middle western 11.35@11.45c. There was little or no activity in the outside oils or greases, but tallow was easier with extra selling at 6%c, a decline of %c from the previous sales, while stearine was barely steady at 8%c for oleo.

Crude oil was also inactive and while there were some sales in the southeast at

934c, the market as a whole was nominal. While there are claims that the open interest in the current position is small, there are intimations that the outstanding contracts are larger than some expect. But from all indications some interest appears to be long through some houses and short through others so that the ultimate short through others, so that the ultimate outcome will be a ringing out of these transactions.

One private report issued the past week placed the indicated cotton acreage for 1922 at 37,469,000 acres, or 119% compared

with the 31,472,000 acres, or 119% compared with the 31,472,000 acres picked in 1921.

Reports on Cotton Acreage.

Another report to one of the best informed spot cotton interests placed the acreage increase at 15% over last year, indicating an area of 36,000,000 to 37,000,000 acres. This particular report said the area in Virginia and North Carolina was increased 10%, Georgia increased 20%,

ASPEGREN & CO., INC.



43 96

114 90 21.

35

22



Produce Exchange Building NEW YORK CITY DISTRIBUTORS



AGENTS PRINCIPAL EASTERN CITIES

SELLING AGENTS FOR

The Portsmouth Cotton Oil Refining Corp., Portsmouth, Va. The Gulf & Valley Cotton Oil Co., Ltd., New Orleans, La. The International Vegetable Oil Co., Savannah, Ga.





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Alahama increased 10%. Mississippi in-Alabama increased 10%, Mississippi increased 15 to 25%, Louisiana increased 10 to 25%, Arkansas increased 20%, Tennesee increased 15 to 25%, Oklahoma increased 20%, California increased 75%, while Texas acreage increased 10%, with 50% planted in the center part of the state, and 5% planted in North Texas.

In Georgia planting was nearly completed in the south, 70 to 75% in the center, and 15 to 30% in the north. In Mississippi about 50% was planted, but in this particular state considerable portions of the South Delta overflowed, and a large amount of plantation labor was drafted to fight high water, making it doubtful if the flood will recede in time to make a crop in the flooded sections. In North Carolina the season was reported ten days late, with planting about half completed in the east, while in South Carolina the season was two weeks early weeks late, with about 50% three planted.

Weather Conditions and Cotton.

The weekly weather report's summary, in full:

Moisture conditions were favorable in most of the Southern states for planting, although the soil was too wet for satisfactory progress in a few localities, especially in the northern portions of Georgia and Alabama, while work was interrupted in the northwest portion of the belt by general rains the latter part of the week. Planting made excellent progress in Texas

and extended to the extreme northwest and extended to the extreme northwest portion of the cotton growing area. The nights were too cool, however, for rapid germination in most sections, although the early planted that is up made fairly good progress. In Eastern districts the crop has advanced to the stage when it is ready to chop out in sections of the coastal plains of South Carolina while chopping progressed favorably in the more northeastern districts. Late planted is germinating slowly in Florida.

Texas.-Generally cool and dry except moderate to excessive rains at close of week in northern and central portions. Growth of early cotton only fair due to cool nights; stand fair; progress in plantexcellent and extended to extreme northwest.

Oklahoma.—Plowing and planting pre-gressed satisfactorily until interrupted by general and heavy rains last of week. Too cold and wet for favorable germination of cotton. Planting under way in South and East portion.

Georgia.—Rains on 18th and 19th heavy in north. Moderate and beneficial but insufficient in Central and South. Followed by cooler weather which was unfavorable for rapid germination and growth.

ton that is up doing fairly well.

Alabama.—Temperature below normal; showers first day, remainder fair, favorable for farm work except wet soil interferring with planting cotton in north. Planting well advanced in South where

some up with good stands. Cool weather retarding germination and cotton.

Mississippi.—Rains on the 18th and 19th generally light to moderate but locally heavy in mid-eastern and extreme South. Ample sunshine but low night temperatures. Cotton being planted throughout state; some up to good stand in South. About two hundred thousand acres of cultivatable land in lower delta inundated.

Louisiana.—Nights a little too cool for most crops. Mostly light rainfall favorable for outdoor work. Generally good progress in planting cotton. Considerable land under water in Central parishes near views. Some action unit legislar well. Some cotton up; looking well; stand good.

Arkansas.—Light rain, very favorable for preparation soil and planting cotton but too cool for good growth. Some cotton coming up.

South Carolina.-Too cool for best crop development; too much rain over large areas in North but more needed in South Cotton planting progressing with good stands in South Central and East. North Carolina.—Rainfall one to three

North Carolina.—Rainfall one to three inches which was needed East and Central parts but cool weather unfavorable for young plants. Rain delayed plowing. Some planting of cotton.

Tennessee.—Light rainfall and much sunshine favored good progress in planting, also beneficial to crops. Very good

progress in planting cotton, some coming up in extreme southwest.

COTTONSEED OIL .- Market transac-

Thursday, April 20, 1922.

		Ran High.	ge-	-Clo	si	ng-
5	Sales.	High.	Low.	Bid	A	sked
Spot				1125	a	1195
April				1135	a	1170
May	600	1141	1135	1135	a	1138
June				1125	a	1130
July	1000	1137	1127	1130	a	1135
Aug	300	1128	1127	1129	a	1133
Sept	1600	1128	1120	1125	a	1126
Oct	300	1507	1051	1053	a	1056
Nov	100	962	962	957	a	965
Total sales	incl	uding	swi	tches		5 900

Frime Crude, S. E. 950 sales.

The Procter & Gamble Co.

Refiners of all Grades of

COTTONSEED OIL

Boreas, Prime Winter Yellow Venus, Prime Summer White Jersey Butter Oil Aurora, Prime Summer Yellow

Refineries

IVORYDALE, O.
PORT IVORY, N. Y.
KANSAS CITY, KAN.
MACON, GA.
DALLAS, TEXAS

Puritan, Winter Pressed Salad Oil White Clover Cooking Oil Marigold Cooking Oil Sterling, Prime Summer Yellow

> General Office CINCINNATI, OHIO

COTTONSEED OILS

Union Pure Salad Oil Union Choice Butter Oil Supreme White Butter Oil I.X.L. Cooking Oil Aco White Cooking Oil A.C.O.Co. Choice Summer White **B Prime Summer White** Sun Prime Summer Yellow Union Cottonseed Stearine MANUFACTURERS

OTHER OILS

Refined deodorized Cocoanut Oil Refined deodorized Peanut Oil Refined deodorized Corn Oil

REFINERS Cotton Linters CottonseedCake and Meal

Fulling and Scouring Cottonseed Soap

EXPORTERS LARD and SHORTENINGS

> Wilcox Lard Boar's Head Shortening Cottolene **Snowhite Shortening**

> > Fairco Shortening

THE AMERICAN COTTON OIL COMPANY THE N.K. FAIRBANK COMPANY

65 Broadway, New York

Cable Address: "AMCOTOIL'

Friday, April 21, 1922.

	Sales.	Ran	ge-	-Clo	si	ng-
	Sales.	High.	Low.	Bid.	A	sked
Spot				1100	a	1175
April				1135	a	1160
May	200	1140	1133	1135	a	1138
June						
July	900	1145	1135	1133	a	1136
Aug	200	1140	1140	1130	a	1133
Sept		1137	1125	1125	a	1126
Oct		1055	1048	1050	a	1051
Nov	700	970	965	961	a	965
Total sa		uding	swi	tches.		5,800
				-		

Prime Crude, S. E. 950-975.

			*	3	a	 • •	ua	y	,		april					
											-Ran	ge-		-Clo	si	ng-
							Sa	le	S.		High.	Low	7.	Bid	A	hosig.
5	Spot													1135	a	1200
1	April													1135	a	1180
3	lay	 			٠			7	00	0	1143	113	4	1140	a	1143
J	une													1130	a	1140
J	uly	 						3	0	0	1138	113	3	1139	a	1143
	lug.													1135	a	1140
	Sept.							7	00	0	1125	112	3	1130	a	1135
	et.							1	00	0	1050	105	0	1055	a	1058
	VOV.							5	0	0	965	96	0	970	a	975
								iı	ac	1	uding	SW	vi	tches.		2.300
1											950-					_,

Monday, April 24, 1922.

		-Ran	ge-	Clo	sing
	Sales.	High.	Low.	Bid.	Asked.
Spot					a
'April	200	1136	1135	1125	a 1150
May	600	1148	1145	1143	a 1147
June				1130	a 1140
July	600	1145	1140	1141	a 1143
Aug				1135	a 1137
Sept				1132	a 1133
Oct	100	1052	1052	1050	a 1053
Nov	200	962	962	960	a 963
Total sales	, incl	uding	swi	tches	1,700

Prime Crude, S. E. 975 nominal. Tuesday, April 25, 1922.

		Ran	ge-	-Clo	Asked.
Sa	les.	High.	Low.	Bid.	Asked.
Spot				1150	a
April				1140	a
May	800	1140	1135	1143	a 1146
June				1130	a 1143
July	200	1137	1137	1140	a 1142
Aug	200	1136	1132	1135	a 1137
Sept	800	1132	1122	1131	a 1132
Oct	100	1050	1050	1050	a 1052
Nov	200	963	963	960	a 963
Total sales.	incl	uding	swi	tches.	2,300
Prime Crude, S.	E.	975 s	ales.		

	1	Ne	ed	ne	sday,	April	26,	1922.	
					-	-Ran	e-92	-Clo	osing-
				5	Sales.	High.	Low.	Bid.	Asked.
Spot .								1145	a
April								1145	a
May .					2000	1153	1140	1146	a 1149
June .								1140	a 1145
July					1900	1150	1145	1145	a 1148
Aug					300	1150	1150	1142	a 1144
Sept					1200	1150	1135	1140	a 1141
Oct					300	1065	1055	1062	a 1065
Nov					400	975	965	970	a 975
					. inc	luding	s sw	itches	. 6,500
Prime	C	rm	de	9 5	E	975 r	omir	al	

Thursday, April 27, 1922.
Closed 2@7 points net higher; sales, 9.900 bbls.; prime crude, 9.50@9.75c; prime summer yellow, spot, 11.45c; May, 11.53c; July, 11.50c; September, 11.43c, all bid.

SEE PAGE 39 FOR LATER MARKETS

COCOANUT OIL .- Outside of a barely steady undertone the feature in the cocoanut oil market the past week was the reported defaulting on the part of a Philippine shipper of copra. The latter, howpine shipper of copra. The latter, how-ever, did not influence the market in the least, which was surprising, although there was a feeling that it may have influence later on. Sentiment is mixed, and in some quarters it is contended that there is too much cocoanut oil available for the present, and the demand too limited for the market to show any pro-nounced strength, notwithstanding the admittedly low levels. At the same time, there is a feeling that a good part of the holdings are not in strong hands. At New York the Ceylon type in barrels was quoted at 8% @9c; tanks, coast, 7%c; Cochin-type, barrels, 9% @9%c; in tanks, tanks. 8½c, and edible in barrels, 10¼@10%c.

SOYA BEAN OIL. - Inactivity ruled throughout, as far as this oil was concerned, and the market was more or less nominal. At New York crude was quoted ir barrels at 10% @11c; blown at 11c; Pacific coast, tanks, 9% @9% c, and deodorized in barrels, New York, 12% @

PEANUT OIL.—Demand for both crude and refined peanut oil was limited. and refined peanut oil was limited. The crude peanut market is swaying pretty much in line with crude cottonseed oil, with mills asking 9% @10c in tanks f. o. b., while crude cotton oil was 9% c nominal. Crude peanut oil in barrels, New York, was quoted at 11%, and refined in barrels at 12% @13c. Oriental crude was nominal at 12% @13c is bond of the second process.

at 8½c in bond, c. i. f.
CORN OIL.—Crude oil offerings are not large, but at the same time refined oil demand is only fair. At New York crude was quoted in barrels at 11c; crude, tanks, Chicago, 9%c; refined oil, barrels, New York, 12½@12%c, and in cases about \$1.19 per gallon.

PALM OIL.—Consumers are showing little interest, and the market is holding steady with limited offerings from abroad. At New York lagos spot was quoted at 7% @8c; lagos shipment, 7½ @7% c; Niger casks, 5% @6c.

PALM KERNEL OIL.—The market is

dull and featureless. At New York imported was quoted at 8%c.

COTTONSEED OIL.—Demand continues limited to immediate requirements. At New York prime summer yellow in barrels was quoted at 12c; bleachable tanks, mills, 10c; southeast crude, 9%c; valley and Texas, nominal.

CHEMICALS AND SOAP SUPPLIES. (Special Letter to The National Provisioner.)

New York, April 25, 1922.-Latest quotations on chemicals and soapmakers' sup-

plies are as follows: Seventy-four to 76% caustic soda, 3%4@ 4c lb.; 60% caustic soda, 3% @3½c lb.; 98% powdered caustic soda, 4%@4¼c lb.;

8% carbonate of soda, 2½c lb.; 58% carbonate of soda, 2@2%c lb.; 58% carbonate of soda, 2@2%c lb.; talc, 1¾ @2c lb. Clarified palm oil, in casks, 2,000 lbs., 8¼ @8½c lb.; commercial yellow olive oil, \$1.12@1.20 gal.; olive oil foots, 8¾ @9½c lb.; Cochin cocoanut oil, 101/2@10% c lb.; Ceylon cocoanut oil, 91/4@91/2c lb.

Prime summer yellow cottonseed oil, 13 @13½c lb.; soya bean oil, 11½@12c lb.; corn oil, nominal, 11½@11¾c lb.; peanut oil, in bbls., New York, deodorized, 12½@

13c lb.; peanut oil, crude, tanks, f. o. b. mills, 91/2@10c lb.

Prime city tallow, special, 6½c lb.; dynamite glycerine, nominal, 13c lb.; saponified glycerine, nominal, 8¾ @9c lb.; crude soap glycerine, nominal, 7½ @8c lb.; chemically pure glycerine, nominal, 15c lb.; prime packers' grease, nominal, 5½ @5¾c lb.

SOUTHERN MARKETS.

New Orleans.
(Special Wire to The National Provisioner.)
New Orleans, La., Apr. 27, 1922.—Prime crude cottonseed oil steady 93/4 cents bid, 10 cents asked. Refined cottonseed oil more active. Meal 7 per cent \$45.00; 8 per cent \$49.00. Loose hulls \$11.50; sacked \$14.50, all F. O. B. interior points.

Memphis.
(Special Wire to The National Provisioner.)
Memphis, Tenn., Apr. 27, 1922.—Crude cottonseed oil was dull and neglected, sellers at 9% cents and buyers 9½ cents.
Meal in the valley was steady at \$51.00@ 51.50 for 43 per cent Memphis. Loose hulls were strong at \$11.00 Memphis.

J. G. Gash & Co., Inc. **25 Beaver Street** NEW YORK

Cable address: Joegash

Fats. Oils. Greases **Cotton Seed Products**

Cotton Oil Options on the New York Produce Exchange

THE EDWARD FLASH CO. 29 BROADWAY, N. Y. CITY

BROKERS EXCLUSIVELY

VEGETABLE OILS In Barrels or Tanks

Hardened Edible Cocoanut Oil

COTTON OIL FUTURES

On the New York Produce Exchange



Protect the Product

HY-GLOSS Paraffining Process is unexcelled, is used by the leading Oleo Manufacturers of the country and attracts the attention of the discriminating buyer

NATIONAL Carton Company JOLIET, ILL.



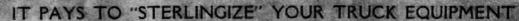
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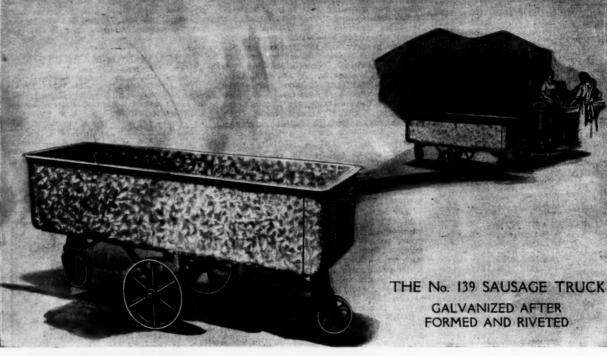
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A.H. BARBER CREAMERY SUPPLY CO.

316 W. Austin Ave. CHICAGO, ILL.

















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Sterling Wheelbarrow Company

THE WEEK'S CLOSING MARKETS

FRIDAY'S CLOSINGS. Provisions.

Provisions were moderately active and easy toward the week end with some pressure from packers and the continued slow sure from packers and the continued slow cash trade. Hogs remained strong, while the English lard market was irregular. Hog receipts in the west averaged better than the estimates, and while there were some export lard inquiries here, they were below a workable basis.

Cottonseed Oil.

Cottonseed oil remained rather quiet, Cottonseed oil remained rather quiet, but was firm, particularly the May position. Liquidation was on for a time, but was readily absorbed, and while May sold a few points under July on Thursday, it went to a premium Friday, and the situation tightened under light offerings buyuation tightened under light offerings buying by shorts and evidence of some refiners' demand. The trade remained
mostly local, and the lard easiness was
ignored. Deliveries were only eight hundred barrels for the first two days. Some
estimate the April consumption at 125,000
barrels. Southeast crude cottonseed oil barrels. Southeast crude cowas quoted at 9%c nominal. cottonseed oil

Quotations on cottonseed oil at Thursday noon were: May, \$11.65@11.72; July \$11.57@11.60; September, \$11.50@11.52; October, \$10.69@10.80; December, \$9.60@

Tallow.

Special loose, 7c asked.

Oleo Stearine.

Sales, 8%c; extra oleo oil, 10%c. -0

FRIDAY'S GENERAL MARKETS.

New York, April 28, 1922.—Spot lard at New York, April 28, 1922.—Spot lard at New York, prime western, \$11.70@11.80; Middle West, \$11.30@11.40; city steam, \$11.00; refined continent, \$12.75; South American, \$13.00; Brazil, kegs, \$14.00; compound, \$12.75@13.00.

Marseilles Oil.

Marseilles, April 28, 1922.—Copra fabrique,—fr.; copra edible,—fr.; peanut fabrique,—fr.; peanut edible,—fr.

Liverpool Provision Markets.

Liverpool, April 28, 1922.—(By Cable.) Quotations today; Shoulders, square, 84s; shoulders, picnic, 76c; hams, long cut, 135s; hams, American cut, 135s; bacon, Cumberland cut, 96s; bacon, short backs, 79s; bacon, Wiltshire, 97s; bellies, clear, 82s; Australian tallow, 37s 6d@39s; spot 82s; Austra....lard, 64s 6d.
Hull Oil Markets.

Hull, England, April 28, 1922.—(By Cable.)—Refined cottonseed oil, 46s 6d; crude, 1s 6d.

ARGENTINE BEEF EXPORTS.

Cable reports of Argentine exports of beef for the week up to April 28, 1922, show exports from that country were as follows: To England, 105,856; to the Confollows: To England, 105,505, to the Continent, 13,714; to other ports, none. Exports for the previous week were as follows: To England, 86,105; to the Continent, none; to other ports, none.

NEW YORK COTTON OIL EXPORTS.

Exports of cottonsed oil from New York from April 1 to April 26, 1922, according to unofficial reports were 1,870 lbs.

CALIFORNIA ICE MEN MEET.

The Southern California Association of Ice Industries recently held its annual con-Ice Industries recently held its annual convention at Santa Monica, Cal., at which many delegates were present for the formulation of progressive plans for the future. Among the more distant guests were Leslie C. Smith, national secretary of the association, and J. H. Nickerson, editor of "Ice and Refrigeration." President S. Hazard Halsted, president of the Pasadena Ice Co., was elected president to succeed himself. succeed himself.

CHICAGO HOG PURCHASES.
Purchases of hogs by Chicago packers
for the week ending Thursday, April 27, 1922, are reported to The National Provisioner as follows: 9,000
 Boyd-Lunham
 Co.
 5,700

 Western
 Pkg. & Prov. Co.
 6,600

 Roberts
 & Oakes.
 4,500

 Miller
 & Hart.
 3,900
 Independent Packing Co..... 5,400 Others

Total88,900 PACKERS' PURCHASES.

CHICAGO. Cattle... 5,798 ... 7,382 ... 5,842 ... 5,158 KANSAS CITY.

	Cattle.	Calves.	Hogs.	Sheep.
Armour & Co	.3,123	764	7.088	4,382
Cudahy Packing Co	. 2.512	491	5,701	4.382
Fowler Packing Co	682			
Morris & Co	.3,278	872	6,904	2,098
Swift & Co	.3.816	865	7.410	4.722
Wilson & Co	.3,693	231	5,391	3,915
Local butchers	. 665	209	1,001	124
OMA	AHA.			
	Cottle	Ho	OF RE	Sheen

OMAHA,		
Cattle.	Hogs.	Sheep.
Morris & Co 3,848	5,029	3,035
Swift & Co 5,270	5.438	4.232
Cudahy Packing Co 5,242	8.870	4.048
Armour & Co 6,220	7.967	5.048
Dold Packing Co 1,498	4.329	75
Swartz & Co	893	
T W Manuals		
J. W. Murphy	11,274	0.000
Others 4,042		2,872
Ogden Packing Co	688	
ST. LOUIS.		
Cattle,	Hogs.	Sheep.
Armour & Co 2,701	8,221	1,111
Swift & Co 2,346	6,919	1.073
Morris & Co 371		185
St. L. D. B. Co 755		
Independent Packing Co., 731	2.036	
East Side Packing Co 103	3,549	
Heil Packing Co 22	2,404	
	2,574	
American Packing Co 45	960	
Sieloff Packing Co 73	857	
Butchers 658	25,614	556

4 SLAUGHTER REPORTS.

Special reports to The National Provisioner show the number of livestock slaughtered at the follow-ing centers for the week ending April 22, 1922:

								•	43	k, i	1	1	A	43	4											
Chicago																									 	34,
																										21,
Omaha					. ,			٠																	 	20,
East St. I	ou	is.		×					ě				į.								į.			×	 	3,
St. Joseph																			×						 	5,
Sioux City	7 .																								 	5,
Cudahy			 								٠								٠						 	
South St.	Par	ul	 		٠						٠	٠				٠										11.
Philadelph	ia					. ,					·										÷	×	4	i.		2,
Indianapol	is		 																		٠					. 3,
New York	an	d	le	r	84	e y	7	(ď	t	v		×							,	è	×	÷			9,
Oklahoma	Ci	ty																								2,
									ī	T	0	16	35	Š.												

Indianapolis																												
Boston				٠									,															1,188
New York a	nd	Je	er	8	ey	7	(ì	t	٧.											·							9,674
Oklahoma C	ity								ď																			2,566
								F	I)(G	S																
Chicago																												80,650
Kansas City	7 .															ı					ı							33,495
Omaha																												
East St. Lo	nis.				ì				ì							ì				ì	ì	ì						29,268
St. Joseph																					٠							18,201
Sioux City																ì												16,959
Cudahy																				۰								11,627
Cedar Rapid																												
Ottumwa									ì						i	ì	i			i	ì	ì	ì					8,331
South St. Pr	ul.																							ì				21,068
Philadelphia										ì						ì	ì				ì							
Indianapolis																												
Boston																												
New York	an	d	1	ρ	r	40	v		(i	Ť.	v				Ċ		Ī			Ī	Ì	Ì	ì				42,078
Oklahoma (ity																				Ì	ì		ì	ì			12,581
Milwaukee						ï	ì																					
Cincinnati			Ī							Ī																		12,800
		-	٥					8																				
Chicago																												. 30,200
Kansas Cit			۰				۰						۰		• •			۰		• •			۰	•	۰	•	۰	. 19,721
Omaha	y	٠.	*	٠	0 0		۰	۰					۰	4 1	9 1			۰							*	0	9	14,358
East St. Lo		• •	٠				۰				0	٠	۰	•	0 1			۰	•						۰	۰	٠	1.969
St. Joseph	uis			0										9 1						0 1					۰			11 919
Sloux City													٠						۰				•				٠	. 311

York and Jersey City.....

RECEIPTS AT CENTERS.

RECEIPIS	AI		MIEK	3.
SATURDAY,	Cat	RIL 22	Hogs.	Sheen.
Chicago	1,	000	4,000	3,000
Omaha		300	5,000	500
St Louis		100	3,000	100
St. Joseph	1,	100 ,600	$\frac{1,500}{4,000}$	200 100
St. Paul		200 300	700 400	
St. Paul		300	400 .	100
Milwaukee		100 400	100	5,400
Milwaukee Denver Louisville		200 300	2,200 400	100
		200	4.000	100
Indianapolis Pittsburgh Cincinnati		100	1,000 1,500	1,000
Buffalo		100	2.400	400
Buffalo		100	2,000 1,400	500
Toronto		100	500	****
MONDAY,				Mb
Chicago	25	ttle. 5,000	Hogs. 45,000	Sheep. 17,000
Kansas City Omaha	13	,000	45,000 13,000 12,500	17,000 11,000 14,000
St Louis		3.500	13.500	1.000
St. Joseph	3	2,000	4,500 4,500	3,000 500
St. Joseph Sioux City St. Paul Oklahoma City Fort Worth	2	,500 ,600	5,000	1,000
Fort Worth	2	2,000	2,000 2,000	500
Milwaukee		2,600	1,800	5,000
Denver Louisville Wichita		500	2,500 1,500	200
		1,000 1,000	6.000	100
Pittsburgh	1	1,200	8,000 8,000	4,000
		1,200 1,200 1,100 2,700	17,000	6,000
Cleveland Nashville, Tenn,		200	6,000 2,000	100
		4,200	800	100
TUESDAY.		RIL 2		
Chicago	. 10	attle. 0,000	Hogs. 24,000	Sheep. 18,000
Kansas City Omaha St. Louis		0.000	24,000 12,500	0,000
St. Louis		8,000 3,000 2,000	12,000 13,500 5,000	9,000 1,500 3,000
St. Joseph			5,000	3,000 500
Sioux City St. Paul Oklahoma City		2,500 2,500	9,500 7,500	1,000
Fort Worth		800 500	800 600	*****
		600 1,300	2,500	7,300
Denver Louisville		300	$1,800 \\ 1,500$	100
Indianapolis		1,000	1,000 8,000	100
Pittsburgh Cincinnati		100	1.000	100 500 300
Buffalo		500 300	4,200 2,500	800
Cleveland		200 100 ·	2,500 1,000	500
Nashville, Tenn Toronto		1,900	1,600	200
WEDNESDA				
Chicago		8,000	Hogs. 16,000	Sheep. 17,000
Kansas City		$5,000 \\ 5,000$	10,000	6,000
Omaha		9.800	11.000	15,000 1,500
St. Louis		2,700 2,500	8,500 9,500	4,000 1,000
St. Paul Oklahoma City Fort Worth Milwaukee Denver		3,000	12.000	500
Fort Worth		700 300	3,500 700	
Milwaukee Denver		1 200	1,000	3,000
Louisville		1,200 200	2,000	400
		1,000	1,000 6,000	100
Indianapolis Pittsburgh Cincinnati		100 500	1,500 4,200	500 500
Биншю		100	1,500	1,200 1,000
Cleveland Nashville, Tenn		300 100	3,000	
Toronto		500	1,800	100
THURSDA			27, 1922.	
Chicago		Cattle. 13,000	Hogs. 31,000	Sheep. 12,000
Chicago Kansas City Omaha		2,500	6,500 12,000	4,000 8,000
				600
St. Joseph		1,000	5,300 7.500	2,500 1,000
St. Joseph St. Joseph Sioux City St. Paul Oklahoma City Fort Worth Milwaukee		2,000		- 100
Oklahoma City		2,500	1,400 700	*****
Milwaukee		900	95 000	100
Denver			1,300 7,000	100
Pittsburgh			7,500	700
Buffalo			900	
FRIDAY			28, 1922.	
		Cattle.	Hogs.	Sheep.
Chicago Kansas City		1,000	2,000	8,000 2,000 3,000
Omana		2,600 700	8,000	
St. Joseph		. 400	2,000	2,000
Siony City		-1.500	7,500	1,000 200
Oklahoma City		. 300	2,000	****
Fort Worth Milwaukee		. 100	300	******
Denver		900	400	100
Indianapolis		. 300	2,000	300 500

NEW YORK LIVESTOCK.

Receipts for the week ending Saturday,

April 22, 1922:	Cattle.	Calves.	Hogs.	Sheep.
Jersey City New York Central Union	3,514 1,619	8,679 4,649 1,639	7,416 16,860 653	16,220 2,067 3,426
Total for week Previous week	8,260 7,220	14,967	24,929 30,792	21,713 28,193 27,150

HIDE AND SKIN MARKETS

(SHOE AND LEATHER REPORTER)

Chicago.

PACKER HIDES active. One packer cleaned out 25,000 December-January strike slaughter, moving Texas at 11, underweights 10c; butts 11c; Colorados 10c, branded cows 10c; heavy cows 10c. Same packer sold 4,000 April natives 14c; car Kansas City March heavy Texas sold 12% c f. o. b. probably for California shipment. Same seller moved 2,000 February-March southern heavy Texas 13c, being %c advance. About 2,500 March branded cows sold 10% c. Another packer moved car northern March natives 13% c. About 4,000 March-April light cows brought 11% c and 5,000 straight Aprils made 12% c. About 4,000 Swift Montevideo steers made \$42.00 and 4,000 Wilson frigorificos advanced to \$40.25, about 75c up from yesterday. April natives quoted 14c; Texas 13% c; butts 13c; Colorados 12c; branded cows 11c; heavy cows 12c; lights 12% c; bulls 7@8% c.

COUNTRY HIDES.—A steady market continues in country hides. A good demand is still evident for the popular light weight varieties and most sales are being effected at 11½c for stuff running as much as thirty per cent grubby. Some sales are quietly made at 11¾c but it seems difficult to get 12c. Most sellers consider 8½c about the nominal market. Sales are being made as low as 8c and some lots of choice heavy weight hides are priced out as high as 9c. The situation in the originating sections is steady in tone. All weight hides are ranged at 8¼ @8%c Chicago basis for business. Most sales are about 8½ @9c; heavy steers here are quoted about 8½ @9c; heavy cows and buffs are ranged at 8@8½c for business. Extremes are quoted at 11½c11½c for average to good quality. Some lots made 11¾c recently. There is a great deal of confidence engendered by reason of the much improved tone to packer light hides. Branded country hides are quoted at 6@6½c flat basis; country packer branded hides range at 8@10c; bulls 5½c @6½c nominal; outside usually asked; country packer bulls 7@7½c; glue hides 4@5c.

NORTHWESTERN HIDES.—Business is still being effected in Twin Cities hides, but usually in moderate volume by reason of the meagre available stocks. All weight hides command 8½c and light stock 11c paid. Heavy hides are brings 808½c with latest business at the inside figure. Bulls are priced at 5½@6c; kipskins quoted at 9@11c; calfskins at 10@12c and horse hides at \$3.00@3.35 flat f. o. b.

CALFSKINS.—One packer moved 7,500 January through April kipskins at 13c for natives, 12c for overweights and 10c for brands. Last sales of city kipskins were at 13c. Calfskins are sentimentally stronger. Two cars of local first salted city skins moved recently at 14c and it is stated today that a couple of cars made 14½c. Collectors are endeavoring to obtain 15c since the big movement noted in packer skins at that level, but well posted operators state that it is still possible to secure local skins at 14½c. Packers sold this week at 15c, involving 35,000 March Chicago and St. Paul skins. Unsold killers are now inclined to talk stronger levels. Buyers while admitting the situation has changed aspect are unwilling to follow any upward tendency at this time. Outside city skins are quoted at 12@14c and countries at 10@12c; deacons 65@80c for descriptions.

DRY HIDES.—Western all weights last

HORSE HIDES.—Renderer hides quoted \$3.75@4.00 with outside asked. Mixed

city and country hides quoted at 3.25@ 3.50 and country run at 2.50@3.00 for age and description.

SHEEP PELTS.—Packer woolskins quoted unchanged at \$1.75@2.10 for quality; shearlings 55@56c for 1's and 42½c last paid for seconds. Dry western pelts quoted 13@16c; pickles \$2.75@4.50 and goats 40@80c.

HOGSKINS.—Country run 15@30c; rejects half; strips 4@5c.

New York.

PACKER HIDES—Business is slow of consummation in city slaughter stock. Killers are endeavoring to move April slaughter, but without success as yet owing to prices asked being considered too high. A few winter hides are still unsold, natives being quoted at 15c, butts 12c, and Colorados at 11c. Sellers are asking a cent advance on April take-off and buyers think this too much. Cows are quoted 101/2/012c for dates; bulls, 71/2/08c.

SMALL PACKER HIDES—No change is noted in eastern small packer hides. A wide variety of prices prevail as to quality and seller. Some recent sales of April native steers were effected in a range of $10\frac{1}{2}$ @ $11\frac{1}{2}$ c and cows ranged at 10@11c. Most of the April small packer hides are held at $11\frac{1}{2}$ for cows and $12\frac{1}{2}$ c for steers. Tanners are slow to operate on such a level as yet. Bulls and brands quoted at 7@ $7\frac{1}{2}$ c.

COUNTRY HIDES-A steady to strong market continues in most all descriptions of light weight country hides suitable for patent leather production. Boston ners are paying up to 111/2c for midwest extremes running twenty to twenty-five per cent grubby, but they do not wish to pay 12c for the grub free kinds, small offerings of which are noted from time to time. An occasional transaction is noted in moderately grubby extremes at 11% c. Sellers in the main are not anxious to offer goods containing less grubs than currently received on account of such a practice leaving undesirable hides on their hands. This is mainly the cause of tanners being forced to trade in a greater percentage of grubby hides than would ordinarily care to in view of the demand for leather. New York traders are beginning to display a little more life and are willing to book all weight seasonably new hides up to 81/2 c. Philadelphia sellers report extremes commanding to 11½c for twenty per cent grubby goods. The heavier weight hides are slow to move, but some buffs have changed hands at $8\frac{1}{4}$ @ $8\frac{1}{2}$ c within recent few days.

CALFSKINS—Another lot of a car of 5/7 New York trimmed city calfskins changed hands at \$1.10. Prior movement was at \$1.15. Most sellers talk \$1.15@1.85@2.50, the last sales figures on three weight skins. Buyers are slow to take hold, notwithstanding the apparent strength reported from the west. Outside city skins are quoted on a basis of 75@90c on lights. Untrimmed skins 14c for cities, 7,000 Hungarian wet salted 8-9 average skins available at 32c and best bids 28c. At Tours French auctions light skins brought 300 fr., equal to 31c; mediums sold at a little higher. Kips quoted \$2.95@3.60 for veals.

KANSAS CITY.

(Special Letter to The National Provisioner.)
Kansas City Stock Yards, April 26.
Moderate receipts today added further strength to the cattle market. Prices ruled strong to 25c higher than Tuesday, and 25c to 35c higher than Monday. Trade was active. Though rather uneven at the

opening, the hog market closed 10c higher,

and average prices were slightly above Tuesday. Shorn sheep were 25c lower, and wooled and clipped lambs were 10c off. Receipts continued moderate.

Receipts today were 5,000 cattle, 10,000 hogs, and 6,000 sheep, compared with 6,000 cattle, 11,000 hogs, and 6,000 sheep a week ago, and 4,200 cattle, 12,500 hogs, and 11,-225 sheep a year ago.

Killers were anxious for fat cattle today and most of the offerings cleared at \$7.75 (8.35, or 15@25c above Tuesday. Trade was snappy and a complete clearance was made by noon. The general action in the market this week indicates a good demand for next week. Eastern orders are large and local killers are taking all classes. Prime steers in practically all weights are selling at \$8.25@8.50. Fat cows are selling at \$4.75@7, and fat heifers \$6.25@8.40. Prime mixed yearlings brought 8@8.50. Veal calves are 50@75c higher than last week's close.

A few hogs sold early at barely steady prices, but in a short time trade was active and the market closed 10c higher and in the highest position of the week. The top price was \$10.25 and bulk of sales \$10.00@ 10.20. Pigs were 10@15c higher, top \$10.40. General indications are that the market is in for a general advance next week. Packers have increased their orders materially this week.

The sheep market lost some of its edge today. Clipped sheep declined 15@25c and fat lambs were 10c lower. Clipped Texas wethers sold at \$8.75@9.50, and wooled lambs mostly at \$15.60@15.90.

OMAHA.

(Special Letter to The National Provisioner.) South Omaha, Nebr., April 26.

With somewhat heavier receipts of cattle this week the market broke sharply on Monday but recovered quickly on Tuesday and Wednesday so that values are actually around 15@25c better than a week ago. The improvement in the trade is attributable to the better beef markets in the East and the better shipping demand.

Choice yearlings sold up to \$8.50 today, and prime light weights would bring \$8.75 or better. Best of the weighty steers are selling around \$7.70@8.40, and bulk of the fair to good cattle move at a spread of \$7.40@7.90, with little of any consequence below \$7.00.

Cows and heifers have been moving freely at rather stronger prices of late, best heifers going at \$7.75, and common canners as low as \$2.75. Fair to good cows and heifers are going largely at a spread of \$5.25@6.25. Veal calves are sharply lower than last week at \$6.00@9.00, but bulls, stags, etc., are quotable steady at \$3.00@7.00.

There have been no new developments in the hog market and prices today compare very favorably with a week ago. Both shippers and packers continue to maintain a decidedly bearish attitude toward the market, but it is evident that they want the hogs around present levels, and the moderate receipts are moving freely right along. With 9,700 hogs here today prices ruled 10@15c higher. Best light weights sold at \$10.15, as compared with \$10.20 last Wednesday, and bulk of the trading was at \$9.90@10.10, against \$9.75@10.00 a week ago.

In the main the trend of values for sheep and lambs has been upward, and although prices are slightly lower than the first of the week, they are still around a quarter higher than last week. Demand has held up surprisingly well, while receipts have been comparatively limited most of the time. Fat wooled lambs are selling at \$14.25@15.75, with California spring lambs bringing \$15.75@16.75. Yearlings are going at \$9.50@13.50, wethers at \$9.00@12.00, and ewes at \$9.00@9.75.

LIVE STOCK MARKETS

Chicago.

(Reported by the U. S. Bureau of Markets.)
Union Stock Yards, Chicago, Ill.

All classes of cattle met active outlet during the week. Beef steer values, in the face of larger runs, recovered early losses and closed fully steady with the previous week end, while yearlings gained 15 to 25c. Young cattle grade for grade commanded moderate price premiums over heavy bullocks. Active competition for and scarcity of she stock resulted in markets bordering on the runaway order, yearling heifers showing the big end of the 15 to 25c advance. A combination of shipping and export orders for bulls pried values loose from the steady niche they have been occupying for several weeks and prices today ruled 25 to 40c higher than a week ago. Veal calves advanced 50c for the week, lighter runs being the factor.

Offerings locally for the first four days of the week, at approximately 56,700, were about 9,000 larger than the corresponding period the previous week, ten markets showing an upturn in numbers of about 11,700. Local receipts for the four-day period were about 2,000 larger than same

period a year ago.
Yearling reached \$9.25 on Wednesday, when best heavies scored \$9.00, these being extreme top prices for the week on the two descriptions. A large proportion of the week's run consisted of beef steers of quality and condition to sell in a spread of \$7.50 to \$8.50, few moving into dressed beef channels under \$7.00. Shippers were active on most sessions, reflecting a more active demand for dressed beef. Exporters bought moderately early in the week.

Mellow fat heavy cows sold upward to \$7.25 and heavy barren heifers up to \$7.65 and above, light yearlings meeting active competition upward to \$8.60 and above. The in-between grades of both fat cows and heifers showed the largest upward price revisions, the bulk of butcher she stock going today at \$5.50 to \$7.15. Country demand was a factor in boosting low-priced cows. Canners and cutters sold largely at \$3.65 to \$4.50 and reflected an

the advance in bulls tended to narrow the range between that class and fat she stock, a spread which has been regarded as out of line recently. Best bologna bulls today reached \$4.75 with bulk at \$4.40 to \$4.60. Heavy beef bulls weighing a ton or more brought upward to \$5.35 to exporters who have been active contenders all week. Choice 1,400-lb. fat bulls sold upward to \$6.25 and individual sales of light yearlings reached \$7.25 and above.

A reduction in the marketings of vealers at the primary markets allowed sell-

A reduction in the marketings of vealers at the primary markets allowed sellers to advance prices and gains on Tuesday amounted to 50 to 75c. Steadiness with the advance ruled until today, when prices were steady to 25c lower, the bulk of the vealers going at a spread of \$7.50 to \$8.00 to packers, who took a few specialties upward to \$8.50. Shipping demand for vealers showed more volume and out-

siders paid upward to \$9.50 for choice 140 to 160-lb. calves at the best time.

Demand for stock steers exceeded the supply and price accumulations amounted to 25c and in spots more. Feeders also shared the advance and both stockers and feeders are now selling at the high point of the year so far. Bulk of the yearling stockers sold on country account in a range of \$7.00 to \$7.50. Several choice loads sold higher. Meaty feeders, averaging 1,100 lbs. and more, went to the Mineral Point, Wisconsin, district at \$8.00 to \$8.25. Numerous loads of selected 1,000 to 1,050-lb. feeding steers went to corn belt feed lots at \$8.00, and 25 head, averaging about 1,000 lbs., went to New Jersey at that price. Demand for stock cows and heifers was also active and prices showed about the same gain apparent in steers.

Chicago's receipts of hogs for the first four days this week totaled approximately 112,000, or 32,000 more than the same period last week, and 9,000 less than similar period a year ago. Ten market total for the week to date of 398,000 shows a gain of 74,000 over a week ago, but was 44,000 under a year ago. Along with this increase in receipts over last week occurred

(Continued on page 47.)

ST. LOUIS.

(Special Letter to The National Provisioner.) National Stock Yards, Ill., April 26.

Light receipts in the cattle yard continue to be the rule and this fact, due to bullish reports from the eastern beef markets, has had the effect of a considerably stronger tone in the trade. The receipts this week are right at 15,000 and the quality fair. The top sale for the week was made on Tuesday at which time \$8.90 was paid for a string of 1,468-lb. Illinois fed steers. The next price to this for the period was paid on two loads of Angus steers averaging 1,400 lbs. which brought \$8.35. Quite a few cattle have been sold around the \$8.00 mark and the bulk of the sales range from \$6.7507 50

\$8.35. Quite a few cattle have been sold around the \$8.00 mark and the bulk of the sales range from \$6.75@7.50.

In the butcher cattle department the quality is much the same as in heavy beeves, nothing that can be called choice or prime in the offerings. A real good bunch of mixed steers and heifers brought the top at \$8.35, and a number of strings

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U. S. YARDS INDIANAPOLIS INDIANA

of good quality yearlings scaled at \$8.00@ 8.25, with the bulk of the sales in the yearling class ranging from \$6.00@7.60.

A spread of \$4.00@6.25 covers the range

A spread of \$4.00@6.25 covers the range in butcher cows, a few fancy heavy cows are selling up to \$6.50, canners and cutters range from \$2.75@3.75, heavy beef bulls \$4.50@5.25, bologna bulls \$4.00@4.50, good light weight butcher bulls \$5.00@6.25.

The hog supply this week is a little better than 63,000, which is about a normal run for this period of the year. The quality of the offerings is fair to good. The featuring demand of the market is for hogs weighing from 175 to 210 lbs. These are particularly desired by the order buyers for the eastern trade. Mixed and butcher grades are in almost equal demand and with light hogs are selling at the top of the market.

The supply of good weight hogs and espepially extremely heavies, is meager. In fact there are very few extremely heavy hogs coming in at all. The trend of the market this week has been towards higher prices and the average is about 15c higher than a week ago, with the exception of rough hogs which are on a fully steady basis.

basis.

Today's quotations are: Mixed and butchers. \$10.45@10.60; good heavies, \$10.35@10.50; roughs, \$8.85@9.00; pigs, \$9.25@10.45; lights, \$10.45@10.55; bulk, \$10.45@10.50.

The sheep run this week was 5,500 and the run consisted almost entirely of lambs. A few fat sheep were in the offerings and they found strong demand and prompt sale. On this grade the market is steady. Good light wool ewes are quoted up to \$8.75, with the bulk going at \$8.00@8.50, Heavy ewes are swinging around the \$8.00 mark. Clipped sheep, \$7.50@8.00. What few wooled lambs are available are only medium to fair in quality and they range in price from \$12.50@14.00. Good to choice wooled lambs would bring more money. Clipped lambs range from \$13.65@14.25, the top figure being the highest of the season on this grade. Spring lambs are in small supply, and at this writing they are quoted at \$16.50@16.75, which indicates about a 25c decline for the week.

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U.S. Yards, Indianapolis, Ind.

Buyers of Hogs on Commission

Reference: Live Stock Exchange Bank

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ICE AND REFRIGERATION

ICE NOTES.

Abbeville, La., is planning to install a new ice plant.

H. W. Kaths, La Crosse, Kans., will shortly start the building of a new ice plant.

C. G. Crawford, Milton, Ky., is planning to erect a new ice plant in the near future.

The Magic City Ice Co., Endicott, N. Y., will build a new ice plant in the near future.

J. O. Raley, Cheraw, S. C., is interested in the establishment of a new cold storage plant.

The Imperial Ice Co., Parkersburg, O., has increased its capital from \$625,000 to \$1.000.000.

William Macomber is going to build a new ice plant on Del Paso boulevard, Sacramento, Cal.

The Ann-A Fuel Co., Ann Arbor, Mich., is going to add an ice department to its activities soon.

The Alpine Light & Ice Co., Alpine, Tex., has been incorporated and will start operations shortly.

The Somerville Ice, Light & Water Co.,

Somerville, Tex., is going to add ice plant equipment to its plant.

The city of Fernandina, Fla., has voted bonds to improve various municipal plants including the ice plant.

The South Texas Cotton Oil Co., Houston, Tex., is planning to establish an ice plant in the near future.

The City Ice Co., Lanvale and Maryland avenue, Baltimore, Md., has recently increased its capital to \$250,000.

W. L. Kirkpatrick, New London, O., is going to erect a new ice plant which will be ready for business very shortly.

going to erect a new ice plant which will be ready for business very shortly.

William Hirth, editor of the Missouri Farmer, and Henry Dean, Mexico, Mo., are planning to erect a cold storage plant there.

The N. E. Ice Manufacturing Co., Leroy and Front streets, Philadelphia, Pa., will begin the erection of a new ice plant this month.

The Pacific Fruit Express Co. will in the near future begin the erection of a new ice plant at Nampa, Ida., which will cost about \$200,000.

The St. Thomas Packing Co., Pork Gravel road, St. Thomas, Ontario, Can., is preparing plans for a new cold storage plant to cost about \$50,000.

The Floresville Ice & Cold Storage Co., Floresville, Tex., has been incorporated with a capital of \$20,000 by J. T. Lawter and J. D. and J. W. Spruce.

Plans for the establishment of a new ice plant at Winchester, Ky., are being considered by D. T. Matlack, the president of the Chamber of Commerce.

The Walla Walla Meat & Cold Storage Co., Walla Walla, Wash., is going to install egg coolers at its plant shortly and expects to increase the capacity in a short time.

G. W. Weatherly, president of the Crystal Ice & Cold Storage Co., Portland, Ore., is considering the plan of establishing an ice plant at Astoria, Ore., to cost about \$40,000.

The Georgia Ice Co., 431 Harmon street, Savannah, Ga., of which A. M. Dixon is president, is making extensive changes and improvements in a plant it has recently acquired.

The Ord Ice Co., Santa Barbara, whose president is Emmett G. Ord, is planning to erect a new ice plant at Santa Clara and Figueroa streets, Ventura, Cal., which will cost about \$440,000.

REFRIGERATION CONGRESS PUT OFF.

in the business everywhere is not favorable for setting in motion the machinery

which would be necessary to make the congress a success. Previous congresses were held at Paris, Vienna and Chicago, and as several years have passed a great advance is hoped as a result of the next meeting of the world's cold storage expected.

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The Fourth International Congress of Refrigeration, which was to have been held in London this year, has been postponed until 1924. The reason for this postponement is that the present uncertainty

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Jacksonville—Jacksonville Whee. & Distrib-uting Co.
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Co., 709 Sixth Ave.
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Norfolk—Southgate Forwarding & Storage Co.
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Pittsburgh—Pennsylvania Transfer Co., Du-quesne Freight Station; Pennsylvania Brew-ers Supply Co., 158 Tenth St. Providence—Edwin Knowles, 28 Custem House

Providence—Edwin Knowies, is custem nouse St.
Richmond.—Bowman Transfer & Storage Co.
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Savannah.—Savannah Brokerage Co.
Savannah.—Savannah Brokerage Co.; G. Savannah.—Savannah Brokerage Co.; G. H.
Weddle & Co., 87 Walbridge Avs.
Washington—Littlefield, Alvord & Co.

CHICAGO MEAT TRADE CONDITIONS

Meat trade conditions at Chicago for the week are reviewed by the United States Bureau of Markets as follows:

Under a much improved demand for fresh meats, the volume of the week's business showed considerable increase with all prices holding steady to higher with the exception of a slight decline in steer prices. Cooler weather and moderate supplies assisted materially in sustaining prices and demand.

Steer supplies consisted largely of medium and good grades and a good percentage of choice bullocks, but few comcentage of choice bullocks, but few com-mon steers. A general decline of around 50c was made on all grades except com-mon early in the week. An occasional sale of \$15.50 on choice yearlings was resale of \$15.50 on choice yearlings was recorded, with \$15.00 the practical top. The bulk of desirable handyweight steers sold from \$13.00 to 14.50 while heavy steers of similar quality sold at 50c to \$1.00 less, weight being an important factor. Cow offerings of all grades were light and prices held steady to strong with last week's closing. Heavy cows of good cutting quality were favored while common light cows moved slowly. With an increased demand for bologna bulls and a limited supply, prices advanced fully 50c limited supply, prices advanced fully 50c during the week.

during the week.

While supplies of veal were fairly liberal, especially the first half of the week, demand proved sufficient to keep stock moving well, with prices advancing \$1.00 by midweek. High prices of lamb have diverted more attention to veal. Choice calves were scarce, common and medium light weights constituted the major part light weights constituted the major part

Ξ

of the offerings.

Although the demand for lambs was somewhat slow, dressed costs were higher and selling prices show a general advance of \$1.00 for the week, with an occasional sale \$2.00 higher. Some California spring lambs were offered at \$35.00 to 38.00, but

lambs were offered at \$35.00 to 38.00, but they moved slowly with few above \$36.00. Moderate offerings of mutton met with demand sufficient to keep stock moving well at last week's closing prices.

With supplies of pork moderate and well in keeping with the demand which was much better than for several weeks past, stocks moved well with prices gradually advancing and the week's business showed substantial gains, both in volume and prices, over last week.

Compared with last Friday, common steers steady, other grades mostly 50c

Compared with last Friday, common steers steady, other grades mostly 50c lower, cows unchanged, bulls 50c higher; veal and lambs \$1.00 higher; mutton steady; pork loins \$1.00 higher, picnics 50c up; Boston butts 50c to \$1.00 higher and spareribs 50c higher. Pork will be well cleaned up with very light carryover of other meats.

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The YORK Semi-Enclosed Vertical Single-Acting Machine with direct Motor Mounting

WHERE electric current is available at a reasonable cost, our Semi-Enclosed Machine, with direct motor mounting, makes a neat, clean and highly economical plant-no belts, no engine or steam lines.

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400-410 Water Street A D R I A N MICH.



FRENCH MARKETS FOR U. S. PORK

(Continued from page 25) nation, paid the minimum duty of 35 frs. per 100 kilos, while American salt pork had to pay the maximum duty of 50 frs.

American Sausage Popular.

The import figures give a clue to the popularity of American sausage in France. The domestic sausage is a seasonable proposition. Whatever its original virtues, they are at best transitory. French sausage shares the advantages and disadvantages of fresh meat. It is highly esteemed when fresh, but it has poor keeping qualities. American sausage made from chilled meat scientifically treated with the processes of manufacture carried to a high degree of perfection, keeps the year round, and sells in France in competition with the famous Aries sausage.

the famous Arles sausage.

The type most in favor is the large sausage from twelve to eighteen inches long, made of pork meat with a small admixture of beef and put up in hog casings. Another favorite type of Arles sausage is put up in beef casings. Our sausage trade rests on the rock bottom of unquestioned excellence and widespread popularity. In the year 1920 a single American firm sold in one season 60,000 boxes of 25 kilos each. There is nothing discouraging in the outlook for continued expansion in this trade except along the line of possible governmental interference.

American sausage before the war sold at from 300 to 400 frs. per 100 kilos. The price subsequently moved to the high figure of 1,650 frs., and sales at present range from 1,200 frs. to 1,300 frs. per 100 kilos. When the price got up to three and one-half times the pre-war figure, the coefficient for the tariff was raised from 50 frs. to 175 frs. The latter figure was reduced over night to the flat rate of 100 frs. per 100 kilos. The duty and the exchange are the two variables with which the trade has had to contend.

French Hogs Not Lard Type.

France is a heavy consumer of lard, particularly in the north. In the south recourse is made to olive and other vegetable oils. There are certain aspects of our lard trade which put the business in a class altogether to itself. This trade, in the first place, has very little connection with the domestic hog industry. In place of our corn-fattened hog, the French farmer produces a type of pig that ekes out a living on forage, table scraps and potatoes. The pig is sometimes finished off before

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killing with oilcake produced at Marseilles from imported copra, peanuts or the soya bean,

bean.

The French hog runs to the slab-sided, lean, continental bacon type. Such hogs are not lard producers. Even if they were the country lard put up by the French farmers is deficient in keeping qualities and makes a poor figure as a commercial item. Bordeaux is one of the best hog regions in France, but is not self-supporting in lard. The fat of the hog is sold with the fresh pork.

regions in France, but is not self-supporting in lard. The fat of the hog is sold with the fresh pork.

All this serves to give American lard a place of unique strength, not only in the French but in the German and other continental markets. The tariff on lard, 30 frs. per 100 kilos, is by no means excessive. There is no urge on the part of agricultural interests for increasing the duty, and even if it were increased considerably, the country would continue to buy from the United States as before.

No Competition to Fear.

Lard is one major food product in which we have practically no serious competition in Europe. One hears talk of coming Serbian competition in the French pork products market. This trade amounts to little at the present time owing, it is said, to transportation difficulties. Even if any great amelioration could be looked for in the matter of transportation by either rail or water, Serbia has customers nearer her own doors. Transport by land must continue dear and hazardous for all perishable goods. Shipments by sea are practically out of the question. Further, the country is not yet organized for successful international trading.

U. S. Oleo Stock Preferred.

Beef and other fats are extensively employed as stock by the French margarine and soap manufacturers. There is no duty on this class of imports. American oleo stock is preferred to South American, as it is the product of corn rather than grassfed cattle. The important tallow business connected with the French soap trade has its center at Marseilles. The French margarine makers are complaining of Dutch competition although they are protected by 35 frs. per 100 kilos general duty. Cheap butter has hurt both the lard and margarine trade. The prevailing low price of butter is to be connected with the recovery of the French livestock industry and the unloading on the French market of huge Government stocks of British colonial butter.

General Trade Outlook Good.

The facts of our hogs products trade with France may be summarized by stating that our business in fatbacks, belies, hams and picnics is falling away as a result of high tariff, adverse exchange and abundant supplies of native fresh meat. The sausage business is on a better foundation. Our sausage is much appreciated and, during five months of the year, is not subject to any severe competition by the domestic article. Further, the excessive duty has now been reduced to a more reasonable figure. Lard is the principal article in our hog products trade with France, as with Germany, and will likely remain so. It is an almost indispensable item in French households and has little to fear from either domestic or continental competition.

Are you taking advantage of the service available on the "Practical Points for the Trade" page? Refer all questions on any feature of packinghouse practice to this department.

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FOR PURCHASING DEPARTMENTS

KRAMER HOG DEHAIRER AT WORK.

Easy and quiet operation with a conveyor that picks up the hogs out of the scalding tub, and delivers them through the machine at a uniform rate of speed and without the use of hooks is an outstanding feature claimed for the Kramer Hog Dehairer. The illustration shows one of these machines in use at the Omaha plant of the Dold Packing Co. The conveyor referred to on the return stretch removes all the hair and refuse from a screen, depositing them into a chute and delivering them to the floors below.

The operation of the machine is well shown in the accompanying photograph of the dehairer at work in the Dold plant. This particular machine has a capacity of 500 hogs per hour. Others ranging in capacity from 100 to 1,000 hogs per hour

bration. This makes the machine more efficient and at the same time lengthens its life, thus reducing the cost of upkeep.

YORK MANUFACTURING EQUIPMENT.

Recent sales and installations of York refrigerating machinery and equipment are reported by the York Manufacturing Company, York, Pa., as follows:

A. F. Armstrong, meat market, Hitchcock, S. Dak., one 3-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Elkhorn Meat Market, W. G. Ebert, proprietor, Edgar, Neb., one 3-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Torvend & Moe, meat market, Patterson, Cal., one 3-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

KRAMER HOG DEHAIRER TURNING OUT HOGS IN THE DOLD PLANT AT OMAHA.

[The large gentleman bossing the job is the popular John C. Sheehy, sales manager for the Dold Packing Co., Omaha.]

are in use in the plants of A. Fink & Sons, Newark N. J., and the Harris Abattoir Co., and Wight & Co., Toronto, Canada.

The dehairing of the hogs is done by short flexible rubber belt scrapers mounted on the drums, which are attached to the shafts. By means of a pump, tank and pipe arrangement hot water is continually sprayed on the hogs. The machine, being entirely enclosed, reduces the waste of water and heat to a minimum.

This dehairer removes all scurf and toe-nails, while the hogs are in the machine for only 45 seconds. The inventor claims that he will be able to increase the capacity and efficiency of the machine. At the Dold plant shown in the photograph there are more hogs killed and with less men in the same time than on their old killing floor.

The Kramer Hog Dehairer is built strongly and durably, having a very heavy steel frame, steel water tanks, heavy shafts and bearings, steel-cut gears, sprockets and a conveyor made up of heavy chain. It is claimed there has been reduced to a minimum all noise and vi-

Kappenberg Brothers, meat market, Plymouth, Ohio, one 2-ton vertical singleacting belt driven enclosed refrigerating machine and high pressure side complete.

Seigfried & Merrit Meat Co., 657 Brook avenue, New York, N. Y., one 4-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Alexander Wilson market, East 40th street and Madison avenue, New York, N. Y., one 2-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Jacobs' meat market, Melvin, Iowa, a 1½-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

P. E. Malzi has added to the York refrigerating equipment in his meat market at Dunlo, Pa., one 2-ton York vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

F. C. Lambert, meat market, Tamaqua. Pa., one 2-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

David C. Metz, grocery and meat market, Newark, Ohio, one 2-ton vertical

single-acting belt driven enclosed refrigerating machine and high pressure side complete.

E. A. Koebel & Son, meat market, Fremont, Ohio, one 2-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Albert Winkler, meat market, Clarks, Neb., a 1½-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

John Zimmerman, meat market, 858 Thomas street, St. Paul. Minn., one 3-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

George R. Sweeney, meat market, West Newton, Pa., one 2-ton vertical singleacting belt driven enclosed refrigerating machine and high pressure side complete,

Henry Himstedt, meat market, 7922 Fifth Ave., Brooklyn, N. Y.; one 2-ton vertical single-acting belf driven enclosed refrigerating machine and high pressure side complete.

Samuel Lyons & Co., meat market, Forest City, Pa.; one 2-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Clarence Weaver, meat market. West Newton, Pa.; one 2-ton vertical singleacting belt driven enclosed refrigerating machine and high pressure side complete.

M. King, meat market, West Alexandria, Ohic; a 1½-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

D. Bergman & Co., packers, Livingston & Indiana Aves., St. Paul, Minn.; one 20-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

John P. Dietz, meat market, Wahpeton, N. Dak.; one 5-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

T. W. Bartkowski, meat market, Minooka, Pa.; one 2-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

George Pabst, meat market, 798 Margaret St., St. Paul, Minn.: one 5-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

W. A Sonnenday, meat market. Cleves, Ohio; one 10-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

N. Schmidt & Sons, packers, Iowa City, Iowa; one 10-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

Peter D. Mohrhardt, meat market, 251 Michigan St., Grand Rapids, Mich.; one 10-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

S. Kupiszewski, meat market, 1531 West Chicago Ave., Chicago, Ill.; one 3-ton vertical single-acting belt driven enclosed refrigerating machine and high pressure side complete.

HIGHEST QUALITY-LOWEST PRICE



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Chicago Section

E. M. Doane of Austin, Minn., was in Chicago for a flying visit this week.

R. L. Endlich of the Wisconsin Butterine Co., Milwaukee, Wis., was in the city during the week.

J. W. Rath of the Rath Packing Co., Waterloo, Ia., was in Chicago on a short visit this past week.

Receipts for the week: Cured meats. 1,071,000 lbs.; fresh meats, 6,192,000 lbs.; lard, 1,168,000 lbs.; pork, none.

F. Boyd of the New Zanesville Packing Co., Zanesville, O., paid a short visit to Chicago during the past few days.

P. A. Jacobson, president of the Inter-state Packing Co., Winona, Minn., came to Chicago for a few days' visit this week.

Packers' purchases of livestock at Chicago for the first four days of this week totaled 36,174 cattle, 79,240 hogs, and 36,-161 sheep.

Vice President V. D. Skipworth of Wilson & Company received congratulations this week upon his accession to the title and honors of "Grandpa."

Merritt, vice-president of the Indianapolis Abattoir Co., Indianapolis, Ind., was again among the frequent and always welcome visitors to Chicago.

W. Laughlin, head of Armour & Company's advertising department, and R. D. MacManus, of the publicity department, were in the East this week.

Paul Salomonsen of Brodr Levy, Copenhagen, Denmark, has been in Chicago on a business trip that includes the more important centers of the country.

E. S. La Bart, head of Wilson & Company's advertising and publicity depart-

C. W. Riley, Jr.

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Consultation on Power and Operating Costs,
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ments, left on Thursday for a business trip to the Pacific Coast. He was accompanied by Mrs. L. Bart.

The Wilson Fellowship Club at Chicago had a dancing party at the New Colonial Club last Friday evening. President Thomas E. Wilson and Mrs. Wilson, and Mr. and Mrs. A. G. Leonard were among

W. H. White, Jr., of Atlanta, founder and president of the White Provision Co., was in Chicago this week attending committee meetings of the Institute of American Meat Packers, of which he is a director, and incidentally conferring with architects concerning the extensive additions to his plant.

Miss Helen J. Gould, secretary to vice president Jacob Moog of Wilson & Com-pany, and for 18 years a member of the Wilson staff, was married on April 29 at the home of her sister at Atchison, Kas., to Mr. Charles Laurents of Chicago. There was a great shower of good wishes and other material evidences of esteem from her host of friends in the Wilson organization.

A nation-wide effort to put the ice business on a higher plane has been undertaken by some 3,000 ice companies of the country. These companies are cooperating in the National Association of Ice Inhave started national dustries and have started a national campaign of education to cultivate good will between the public and the ice companies. Pure ice, correct weight, good service are the three requirements of membership.

Swift & Company's sales of carcass beef in Chicago for the week ending Sat-urday, April 22, 1922, for shipment sold out, ranged from 8.00 cents to 16.00 cents

per pound, average 12.02 cents per pound.
Provision shipments from Chicago for the week ending April 22, 1922, were as follows:

Cured meats 12,379,000 12,875,000 16,306,000 Lard 6,421,000 5,866,000 8,913,000 Fresh meats 25,256,000 24,870,000 24,741,000 Pork 5,245 Canned meats 10,162 15,000 Medical Polymer 1,500 Medical Polym

Chicagoans intending to attend the convention of the Interstate Cottonseed Crushers' Association at New Orleans on May 10, 11 and 12 will be well taken care of en route. The Chicago party is being arranged by Charles B. Martin, of Sterne

R. J. McLaren

HENSCHIEN & McLAREN Architects
1637 Prairie Ave. Chicago, Ill.

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Anders & Reimers ARCHITECTS

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Packing House Specialists

PACKERS ARCHITECTURAL & ENGINEERING

WILLIAM H. KNEHANS, Chief Engli

ABATTOIR PACKING AND COLD STORAGE PLANTS Manhattan Building, Chicago, III. Cable Address, Pacarco

& Son Co., who was chairman of the hotel committee at last year's Chicago conven-tion. A specially chartered sleeper on the Illinois Central will be carried on the train leaving Chicago at 12:30 noon on Saturday, May 6, reaching New Orleans on Sunday, in time for the sessions of the Rules Committee on Monday and Tuesday, and the convention the following three days. Anybody who goes with Charley Martin as chaperon will have a good time,

The fifth annual concert of the Swift & Company Male Chorus, which took place last Friday evening at Orchestra Hall, afforded illustration of what can be done through organization spirit in artistic as well as in business lines. This body of singers, made up entirely of business men from the Swift staff, gave a program worthy of any professional organization under the direction of their conductor, D. A. Clippinger. The guest artist of the evening was the famous opera tenor, Tito Schipa, but in no respect was the work of the chorus cast into the background thereby. Even the printed program was a typical Swift production. The chorus numbered 75 voices. The officers are: G. F. Ford, president; O. C. E. Matthies, vice president; A. Arnemann, secretary and treasurer; Thos. L. Smith, llbrarian; H. M. Dimbleby, historian.

CHICAGO PORK QUOTATIONS.

Wholesale prices of cured pork and pork products, per 100 pounds, for the week ending April 14, 1922, with comparisons, are quoted by the U. S. Bureau of Markets, as follows, at Chicago:

As 10110WS, at Apr. 14. Apr. 7. Mar. 17.

H a m s, smoked, 14-16 average. \$25.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$14.00 \$28.00-30.00 \$28.00-30.00 \$14.00 \$28.00-30.00 \$28.00-30.00 \$14.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$14.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28.00-30.00 \$28 Apr. 7.

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CHICAGO

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References

Armour & Company The Cudahy Packing Co. Co. Austin Nichols & Co.

iew York Butchers Dressed Meat Co.

Joseph Stern & Sons, Inc. Manhattan Veal & Mutton Co. United Dressed Beef 22

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Packinghouse Reminiscences Tales of the Early Days in Chicago's Beef Killing Business

By John Nell Carbray.

By John Neil Carbray.

EDITOR'S NOTE.—This is the 16th of a a selies of anecdotes of the old days in "Archer Road" and elsewhere in the beef killing district of Chicago, written by an old-timer who grew up as a boy in the cattle-killing gang and later became one of the champion beef butchers of his day. He is now an inspector in the employ of the federal government. His acquaintance includes pretty nearly every famous character of the early days of the packing business in Chicago, and his reminiscences should be read with interest by those who recall the old days or who would like to hear about them The author prepared this series of articles especially for THE NATIONAL PROVISIONER.)

Handling Bruised Cattle.

There was a much mooted question which was under discussion for years between the packers, livestock shippers, ranchmen and railroads, and that was the method used in handling livestock while enroute to the various stockyards through out the country. Sheep, cattle and hogs were packed like sardines in a box. The range cattle in those days of the '70s and '80s were as plentiful and numerous as the sands of the sea. In the discussions that followed as to discontinuing this inhumane handling of livestock, one would "pass the buck" to the other. So nothing came of it. Those of us who were foremen and were held responsible for the beef dressing can recall the hardships and trials that were endured in those days to get those range cattle, many of which were invariably bruised from rump to neck and from neck to heels, into as respectable condition as possible.

When they came at the rate of 180 an hour and you were hooked up to handle only clean cattle, free of bruise, and when you struck range cattle it was absolutely necessary to put on 15 or 20 more men, and you didn't know where to get them and this beef had to be trimmed and scrubbed clean and wiped before it went into the coolers, I simply shudder to recall those days. When they came that way, it was up to the division superintendent to get the men needed for the emergency, which he did.

I recall an occasion of this kind when our superintendent, R. K. Patchell, came up on the beds. He had following him one of the most villainous crews that ever graced the stockyards. They appeared as if they had just stepped from the deck of the "Flying Scud"-with skull and crossbones flying from her top gallant. There were Lascars, Syrians, Spaniards, a few Mexicans and one lone colored man in the crew to help us out.

Often in an emergency of this kind nobody was exempt from service, even the halt and the blind were pressed into this work. The purpose was to keep the gang from getting blocked up. This bruised beef had to be kept moving just as if it were native or free from bruises. After the bruises were trimmed off, some of the carcasses would look like a real canner. There would be nothing but the frame left.

Ordinary scrub brushes fastened to long handles were used then. Extra men were used to fill their buckets with hot water. These brushes and the method of carrying water in a bucket were used up to 1892-93, when the fountain brushes were put into operation along with running water. This was considered a wonderful improvement.

Inhuman Cattle Transport.

Generally speaking, all range cattle are wild and timid, but after they had completed their 2,000 mile journey, more or less, they are not wild, they are stark mad. And I reckon we would be too, if we were packed so tight that we could hardly breathe. Then the jolting and crashing of the long train, when the air brakes are put on, is anything but a pleasant sensa-tion, particularly when one is down and the others are trampling all over him. Let you and me remain in that one cramped position for nearly a week while enroute and then add insult to injury by not getting a drop of water to drink, and our bodies would be just one mass of bruised flesh, and burning up with a fever. Then one need not wonder that those poor dumb brutes were stark mad.

Well, these inhumane and intolerable conditions in handling range cattle went on for years and years. The ranchmen and the shippers were anxious to get the cattle off their hands. Quantity was the slogan. They called this efficiency in those days. Never a thought was given to the poor dumb animals and the railroads abetted in all these inhuman cruelties, and they are still doing it, but not on the scale that they used to. They are only minor cases now, because there is a fine imposed on them every time they try to pull off this inhumane treatment of livestock while energia. stock while enroute. The poor brute, unable to speak for himself, has found a friend at last to take up his grievances and champion his cause, in the person of

Federal Legislation Passed.

The United States Department of Agriculture, through the Bureau of Animal Industry, has decreed that the inhumane treatment and cruelty shown to livestock while enroute to their respective destinations must cease. And therewith a bill was drawn up and framed called "The Twenty-eight Hour Law." This bill was Twenty-eight Hour Law." This bill was approved by the U. S. Department of Agriculture and introduced into Congress through the Bureau of Animal Industry. Congress approved and passed it, making it a law. This law was passed in 1906 and has been effective ever since. It was bailed with delight by all who were interested in the prevention of cruelty to animals.

This law is rigidly enforced by federal employes, who are an integral part of that silent corps of men who devote their lives to meat inspection work, whose duty it is to carry out and fulfill the U.S. Meat Inspection Law to the letter, and about whom the public in general know little or nothing. These men are the government's nothing. These men are the government's sentinels doing outpost duty, ever watchful and guarding the public's health and welfare by rigidly supervising and inspecting the manufacturing of all meat food products in all packinghouses throughout United States.

When the railroads were caught violating this law, they were brought before a United States judge, and if found guilty, a penalty was imposed on them in the shape of a fine. The amount of the fine depended largely on the extent of the violation of the Act. This had the desired effect. From that time to the present, the packers and all men connected with the beef kill-ing industry have no reason to complain about buying and paying for cattle that are literally bruised and mangled, though they are standing on their feet oftentimes and running around. It is a difficult thing for a cattle buyer to ascertain whether bullocks are bruised or not, particularly when they are wild.

When large bunches of Western cattle

are bought at top price, and found to be badly bruised after they are dressed, which was often the case, it is a great loss and a waste. And one can surmise it

is difficult for the purchaser to realize any profit on such cattle whatever. Today there are very few bruised cattle. Once there are very few bruised cattle. Once in a while there is an exception, but it is not the rule. This elimination of bruised beef to the smallest possible percentage can be credited to the working of the "Twenty-eight Hour Law" and the efforts of the employes of the Bureau of Animal Industry.

(To be continued)

CHICAGO LIVESTOCK MARKETS.

(Continued from page 41.)

a corresponding increase in shipments. around 21,000 going to that outlet in four days against 14,000 same time last week. One feature this week has been the fact that strongweight hogs have worked much closer to the lighter weights, making a very narrow range for desirable butchers.

butchers.

While today's top at \$10.60 stood 10c lower than last Thursday, bulk of the hogs cashed at \$9.95 to \$10.60 or steady to 10c higher than a week ago, strength being noted on the heavier hogs. Light and medium weight butchers show little change from last Thursday, but stronger weights, averaging 250 lbs. and up, closed 15 to 20c higher, while the light lights and pigs show advances of 25 to 50c over last Thursday. A few orders for stock pigs this week were filled at \$9.50 to \$10.00 for 110 to 120-lb. averages. Packing sows have been in active demand all ing sows have been in active demand all week and closed 10 to 25c higher than a week ago.

Reflecting extremely light slaughter last week and higher markets at large eastern consuming centers on the dressed product, fat sheep and lamb values worked considerably higher late last week and on opening session of this week. The last two days, however, packers have shown a disposition to effect savings in hoof costs and the market has had an unhoof costs and the market has had an un-evenly lower trend, particularly on stuff of medium and mediocre quality, the strictly good to choice kinds of the more desired weights holding fairly steady by reason of their scarcity. As compared with Thursday of last week, current prices are still around 75c higher on good and choice fat lambs and yearlings, with the better grades of fat sheep largely 50c higher but occupying, in trade opinion, an insecure price position, as demand for mutton usually falls off abruptly with the coming of the warm weather season.

Best handyweight Colorado-fed lambs here today sold at \$16.25 pothing quite as

here today sold at \$16.25, nothing quite as desirable appearing as the \$16.50 lambs from that source here earlier in the week, and the latter price possibly still brings quotable for prime handyweight fed Mexicans. Other dry-fed wooled lambs of lower dressing qualifications ranged down to \$15.00 on today's market. Shorn lamb top was \$14.75, with the bulk today at \$13.50 to \$14.50 and some extreme heavy throwouts and a light fleshed feedery kind from \$12.50 down.

Several loads of shorn yearlings, some of them carrying a two-year-old end, have sold from \$12.00 to \$12.75, with best reaching \$13.00 at the week's high time. Fed Texas shorn wethers have been available daily and sold from Monday on up to \$9.50 to \$10.00, the best today stopping at \$9.75 and being mates of \$10.00 wethers previously. Shorn ewes sold up to \$9.40 and a few light wooled ewes as high as \$10.00 during the week, but \$9.25 today stopped very good medium weight clipped ewes and \$9.50 bought some desirable extranguight wooled every Rich sirable strongweight wooled ewes. Big weights in good flesh condition, both shorn and wooled, sold around \$8.50. Killers are showing a growing preference for shorn as compared with wooled stock and price differentials are narrowing.

Receipts for the week to date at Chicago totaled about 66,400 or over 30,000 more than like period last week. Ten markets have had about 189,000, compared with 105,779 like period last week.

CHICAGO LIVE STOCK.

RECEIL	PT8.		
Monday, April 1715,615 Tuesday, April 1812,086 Wednesday, April 19.10,011 Thursday, April 209,964 Friday, April 212,494 Saturday, April 221,000	Calves. 2,032 5,174 1,728 7,577 737 400	Hogs, 30,210 18,144 11,909 20,135 14,639 5,000	Sheep. 10,087 7,233 10,461 8,128 6,451 3,000
Total for week 51,170	17,648	100,037	45,361
Previous week	$\begin{array}{c} 18,139 \\ 17,022 \\ 26,256 \end{array}$	121,724 142,121 163,547	49,330 93,772 57,624

SHIPMENTS

Monday, April 17 4,206 Tuesday, April 18 3,124	183	4,955 4,874	2,071 1,612
Wednesday, April 19, 3,896	80	2,425	3.985
Thursday, April 20., 3,586	188	1,985	4.265
Friday. April 21 1,273	90	3,648	3,227
Saturday, April 22 300		1,500	*****
Total for week 16,385	542	19,387	15,160
Previous week14,661	159	16,066	11,359
Year ago25,832	591	18,015	30,313
Two years ago 22,003	69	42 936	19 046

Receipts at Chicago for the year to April 22, 1922, with comparisons:

	•	-	 *	_	-	 ٠.	-	•								1922	1921
Cattle																864,603	871,066
Calves													0			266,694	257,088
Hogs																2,601,823	2.838,531
Sheep																1.108,631	1,462,198
Horses													٠			15,189	18.106
Cars .																81.037	87,671

Total receipts of hogs at eleven markets:

									Week.	Year to date.
Wee	k endin	g April	90	2.			 		.422,000	8,849,000
Prev	ious we	ek				i			470,000	*********
Cor.	week,								.537,000	
Cor.	week.								.591,000	
Cor.	week.								.555,000	
Cor.	week.								.570,000	
Cor.	week.								.506,000	
Cor.	week.								.519,000	
Cor.	week.								,450,000	
Cor.	week.								.413,000	

Combined receipts at seven points for week ending April 22, with comparisons:

Week		et		1		n			Α			-4	1		9	0				Cattle, 154,000	Hogs. 327,000		heep.
		9	٠,																				
Previo	H	ls		7	и	æ	×	1	ĸ.				٠							142,000	369,000	13	5,000
1921																				165,000	412,000	23	2,000
1920						ī.														200,000	494,000	15	6.000
1919								0							Ī			ľ		166,000	460,000	19	4.000
1918									Ī.	Ī						•				226,000	470,000		0.000
1917		į.	ĺ		ĺ	ĺ.		Ĩ	Ī	ĺ.	ĺ.	Ĺ								131,000	414.000		2.000
1916								1		Ī	1	C		C	-	1	1		1	124,000	421,000		3,000
1915																				136,000	360,000		0.000
1914																				116,000	323,000		8.000

Combined receipts at seven markets for year to

awfar 11		••	•		4	e	-	9	M	1	·	E	compariso	HS.	
1922													Cattle. 2,606,000	Hogs. 7.262,000	Sheep. 2.777,000
1921													2.579,000	7,937,000	3,485,000
1920	,				,								2,968,000	8,318,000	2,755,000
1919						,		,					3.282,000	9,996,000	2,948,000
1918													3,526,000	9,669,000	2,768,000
1917	,												2,759,000	8,735,000	3,266,000
1916	,												2.366,000	9,367,000	3,124,000
1915													2,039,000	7,549,000	3,182,000

Chicago packers April 22, 1922;	8"		h	00	-	92	l	al	115	χl	t	6	r		f	0	r		W		e	k		end
Armour & Co																								7.5
anglo-American																								5.3
swift & Co																								10.
lammond Co																								4.
dorris & Co	-	-			0	0.0		0			-	-	Ť	•				-		-	-	-		7
Vilson & Co					-								Ĉ						•		•			7
Boyd-Lunham		^			•		•	•	•		^	•	•	^			•	•	•	•	٠	•		4
Vestern Packing	6	à	* '					*	*		*	•	٠		*	K.)			*	*	*	*		9.
Roberts & Oake.	-	.,	•						*		•		•		*				•	•	٠			3.
diller & Hart	٠.	*			-			*	*					•					*		•	*		12.
ndependent Pack	4.	-		6	â	• •		*	•				^	*	^	* 1				*		*		5.
Pannen Decking	C	ě		3	9	* *			*		*			*		* 1	9		×	*	×	*		4.
Brennan Packing	·	v			•					5 1			٠		0				*	*	*	*	*	4.
Wm. Davis Co		8	5					è					٠	ė.	ř.	۶.			*	*	6			2,
Others														*	×					×				. 9.

Roberts &	Oake										ĺ.	ĺ.			į.						Ī	3.90
Miller & H	art.													ĺ.					Ē			3,90
Independent	Pac	ek	11	12	-	C'e	1.				ä								÷			5.50
Brennan Pa	ekin	g	(20	ď						Ĵ	Ĺ			ì	Ĵ	ì	Û	Û	Û	Ĵ	4.70
Wm. Davis	Co.	٠.										ì		 ĵ.	ĺ.	ì	•	ì	0	î	Ĵ	2.50
Others										 											8	9,10
Total																						86,60
Previous w	eek																					107,70
Year ago .																						128,20
Two years :	ago.																					119,60
Three years	SEC																					127.20

WEEKLY AVERAGE PRICE OF LIVESTOCK.

Cattle.	Hogs.		Lambs.
Week ending April 22\$ 8.00	\$10.20	\$ 8.90	\$14.00
Previous week 7.90	10.50	9.85	14.25
Cor. week, 1921 8.10	8.30	6.90	9.90
Cor. week, 1920 11.90	15.05	14.90	19.30
Cor. week, 1919 15.80	20.80	15.00	17.80
Cor. week, 1918 15,15	17,30	15.70	*19.75
Cor, week, 1917 11.65	15.70	12.20	14.75
Cor. week, 1916 9.10	9.85	8.20	10.20
Cor. week, 1915 7.80	7.50	8.00	9.80
Cor. week, 1914 8.45	8.45	5,45	7.40
Cor. week, 1913 8.00	8.45	6.35	8.05
Cor. week, 1912 7.95	7.60	7.10	9,30
Cor. week, 1911 5.85	5.90	4.15	5.30
Average 1911.1921 \$10.00	\$11.25	8 9 45	81. 95

*Highest lamb average on record up to April, 1918. Prices at Chicago Thursday, April 27, 1922:

Prices at Chicago Thursday, April 27, 1	1000	
CATTLE.		
Beef Steers:		
Med. and heavy wt. (1,100 lbs. up)-		
Choice and prime\$		
Good	8.25@	
Medium	7.05/4	
Common	6.9000	7.65
Light weight (1,100 lbs. down)-		
Choice and prime	8.80@	
Good	8.35@	8,80
Medium	@	
Common	7.65@	8.35
Butcher Cattle:		
Heifers, common choice	5.65@	
Cows, common choice	4.65@	
Bulls, Bologna and beef	4.25@	6.60
Canner and Cutters:		
Cows and heifers	3.50@	
Canner steers	4.25@	5.50
Veal Calves:		
Light and med. weight, med, choice	6.00@	8.25
Medium weight, common choice	4.00@	7.50
Feeder Steers:		
Common choice (1,000 lbs, up)	6.00@	
Common choice (750-1,000 lbs.)	6.000	7.75
HOGS		

10.60
9.95@10.60
10.20@10.40
10.30@10.60
10.45@10.60
10.15@10.50
9.35@ 9.85
9.15@ 9.45
9.25@10.25
@

174447474	
Lambs: (84 lbs. down) medium prime\$1	2.25@14.75
Culls and common	9.00@12.00
Yearling wethers	9.50@12.75
Wethers, medium prime	7.75@10.25
Ewes, medium choice	7.00@ 9.50
	3.25@ 7.00
Breeding ewes (full mths. yrgs)	

SHEEP

CHICAGO PROVISION MARKET

Range of	Prices.		
SATURDAY, AP	RIL 22,	1922.	
Open.	High.	Low.	Close.
-(Per bbl.)-			
	S	\$	\$21.25
-(Per 100 lbs.)-			
10.871/2	11.00	10.87%	11.00
	11.25	11.121/2	11.25
11.3712	11.50	11.37 1/2	11.47%
-(Boxed 25c more tha	n loose)		
11.55	11.6235	11.55	11.623/
10.05			10 05

July	10.85	10.85	10.85	10.85
MONI	DAY, API	RIL 24,	1922.	
Don't in the	Open.	High.	Low.	Clos
PORK(Per bbl.				21.25
LARD-(Per 100	lbs.)-			
May	10,95	10.95	10.92%	10.92
July	11.15	11.22%	11.15	11.15
Sept		11.45	11.40	11.40
RIBS-(Boxed 25	e more th			
May	11.70	11.70	11.70	11.70
July	10.8215	10.92%	10.82%	10.90
Sept		10.90	10.90	10.90

DRYERS AND CONTINUOUS PRESSES

PORK-May LARD-May July Sept.

RIBS-May



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TUESDAY, API	RIL 25,	1922.	
Open,	High.	Low.	Close.
PORK(Per bbl.)			
May			21.25
LARD—(Per 100 lbs.)—		** ***	
May 10.85	10.85	10.821/2	10.82 1/4
July 11.1714	11.171/2	11.05	11.07%
RIBS—(Boxed 25c more that	11.321/2	11.20	11.30
May	in loose)		11.60
July			10.90
Sept.			10.90
WEDNESDAY, A			10.00
11 20 21 20 20 20 20			~
Dong (Pos th) Open.	High.	Low.	Close.
PORK-(Per bbl.)-	21.50	21.50	21.50
May	21.00	21.00	21.30
May 10.85	10.9714	10.85	10.9216
July 11,021/2	11.22 1/2	11.0214	11.171
Sept 11.35	11.45	11.35	11,421/4
RIBS-(Boxed 25c more the	n loose).	11.00	11.14 73
May 11.70	11.70	11,65	11.65
July 11.00	11.021/2	10.97%	10,9714
Sept 10.95		10.95	10.9715
THURSDAY, AL	RIL 27,	1922.	
Open.	High.	Low.	Close.
PORK-(Per bbl.)-			2.400.21
May 21.00	21.00	21,00	21.00
LARD-(Per 100 lbs.)-			
May 10.871/2		10.82 1/2	10.85
July 11.071/2	11.10	11.07 1/2	10.10
Sept 11.35	11.35	11.30	$11.32\frac{1}{2}$
RIBS-(Boxed 25c more the	in loose)	** 00	** **
May 11.65	11.65	11.60	11.60
July 10.90	10.90	$\frac{10.8716}{10.90}$	$10.87\frac{1}{2}$ 10.90
Sept 10.971/2			10.90
FRIDAY, APR		922.	
Open.	High.	Low.	Close.
PORK-(Per bbl.)-			
May			21.00
LARD-(Per 100 lbs.)-	40.00	10 201/	10.00
May 10.871/2	10.90	10.721/2	10.80
July 11.10	11.10	11.00	11.071/2
Sept 11.321/2	11.321/2	11.22 1/2	11.27 1/2
RIBS—(Boxed 25c more the			11 00
May	10.9715	10.871/2	11.60
July 10.95			10.871/2
Sept	* * * * *	****	10.30

CHICAGO RETAIL FRESH MEATS

(Corrected weekly by C. W. Kaiser, Sec'y, United Master Butchers' Ass'n of Chicago.) Beef.

	No. 1.	No. 2.	No. 3
Rib roast, heavy end		22	20
Rib roast, light end	223	26	22
Chucks roast		15	12
Steaks, round	30	25	23
Steaks, sirloin, first cut	42	35	210
Steaks, porterhouse		42	82
Steaks, flank		22.5	15
Beef stew, chuck		15	14
Corned briskets, boneless		18	20
Corned plates		141	10
Corned rumps, boneless		22	18
Lamb.			

	Good.	Com
Hindquarters	42	35
Legs		38
Stews	20	15
Chops, shoulder		25
Chops, rib and loin		40
Mutton.	00	
	00	
Legs		* *
Stew		* *
Shoulders		
Chops, rib and loin	35	
Pork.		
Loins, whole, 8@10 avg		@32
Loins, whole, 10@12 avg		6630
Loins, whole, 12 to 14		@28
Loins, whole, 14 and over		6025
Chops		6036
Shoulders		@20
Butts		@23
Spareribs		@15
Hocks		@15
Leaf lard, unrendered		@10
Veal.		
	OF.	@30
Hindquarters		
Forequarters		20018
Legs	20	@35
Breasts		20018
Shoulders		@23
Cutlets		@42
Rib and loin chops		@35

	But	chers'	Offal.	-
				@ 34
Shop fat				@ 14
Bones, per 100	lbs.			@25
Calf skins				@12
Kips				@10
Deacons				@12

Deacons	@12
CURING MATERIALS.	
Bbls.	
Refined saltpetre, gran 7%	7%
Crystals 8%	8%
Double refined nitrate of soda, f. o. b.	
N. Y. & S. F., carloads 41/2	4%
Less than carloads, granulated 4%	4%
Crystals 5%	5%
Kegs, 100@130 lbs., 1c more.	
Boric acid, crystals to powdered, lbs11 1/2	121/2
Borax, crystals to powdered 61/4	71/4
Sugar—	
Raw sugar, 96 basis	@ 4
Second sugar, 90 basis	@ 35%
Syrup, testing 63 to 65 combined sucrose	
and invert	@20
Standard, granulated, f. o. b. refinery	
(less 2 per cent)	@ 5.30
Plantation, granulated, f. o. b. New	-
Orleans (less 2 per cent)	@ 5.10
White clarified, f. o. b., New Or-	
leans (net)	@ 43%
Yellow clarified, f. o. b., New Or-	0
leans (net)	@ 4%
Salt-	Sp - 10
Granulated, car lots, per ton, f. o. b., C.	hi-
cago, bulk	\$ 8.56
cago, bulk	go.
bulk	10.00
Rock, car lots, per ton, f. o. b., Chicago.	8.50

CHICAGO) MA	RKET PRICES	Rib bellies, 20@25 lbs
WHOLESALE FRESH MI	EATS.	DOMESTIC SAUSAGE.	Fat backs, 10@12 lbs
Carcass Beef. Week ending	a	Fancy pork sausage, in 1-ib. cartons	Fat backs, 14@16 lbs. @ 8%, Regular plates
April 90	Cor. week, 1921. 17 @18		WHOLESALE SMOKED MEATS.
Prime native steers	16 @17 14 @16 13 @16	Frankfurts in pork casings	Regular hams, fancy, 14@16 lbs
Heifers, good	10 @15	Bologna in beef bungs, choice	Standard regular hams, 12@16 lbs
Cows 8 @11½ Hind quarters, choice @21 Fore quarters, choice @10	@24 @13	Bologna in beef middles, choice. @13 ½ Bologna in cloth, paraffined, choice. @14 Liver sausage in hog bungs. @16 Liver sausage in beef rounds. @10 Head chees	Breakfast bacon, fancy, 6@8 lbs
Beef Cuts.	000	Head cheese all the cheese all 11 New England luncheon speciality all 12 Liberty Juncheon speciality all 16 Minced luncheon speciality all 17 Toronto-speciality all 18 Toront	Nkinned lams, fancy, 16@18 lbs.
Steer Loins, No. 1	@32 @30 @39	Liberty luncheon specialty	Standard bacon, 12@14 lbs. @22½ Standard bacon, strips, 6@7 lbs
Steer Short Loins, No. 2 @34 Steer Loin Ends (hips) @22	@36	Tongue sausage	Cooked hams, choice, skinned, surplus fat off, smoked Cooked hams, choice, skinless, surplus fat
Steer Loin Ends, No. 2 @21 Cow Loins	@28 @27 20 @26 29 @30	Souse	off, smoked
Cow Loins	20 @28 29 @30 18 @20 @22	DRY SAUSAGE.	Picnics, skinned, surplus fat off, smoked.
Cow Loin Ends (hips) . 10 @15 Steer Ribs, No. 1 . @21 Steer Ribs, No. 2 . @19 Cow Ribs, No. 2 . @19 Cow Ribs, No. 2 . @18 Steer Rounds, No. 2 . @18 Steer Rounds, No. 1 . @15 Steer Chucks, No. 1 . @10 Steer Chucks, No. 1 . @10 Steer Chucks, No. 2 . @ 94 Cow Ribs, No. 2 . @ 94 Steer Chucks, No. 2 . @ 94 Steer Plucks, N	@20 @20	Cervelat, choice, in hog bungs	FERTILIZERS.
Cow Ribs, No. 2	@18 @17	Thuringer Cervelat	Ground dried blood \$3.35(a.3.50)
Steer Rounds, No. 1	@17 @16	B. C. Salami, choice	Ground dried blood \$3,35@ 3.50 Unground and crushed blood 3.00@ 3.25 Concentrated tankage, ground 3.25@ 3.85
Steer Chucks, No. 2 @ 942 Cow Rounds 124.@13	@11 @ 9 14 @15	B. C. salami, new condition. (419 Milano salami, choice, in hog bungs. (411 Frisses, choice, in hog middles. (239	Concentrated tankage, ground 3.29@ 3.59 Hoofmeal 1.2.10@ 2.25 Ground tankage, 10 to 11% 2.25@ 3.50 Ground tankage, 6½ to 9% 2.25@ 2.50 Crustled and unground tankage 2.00@ 2.50 Ground raw bone, per ton 22.00@30.00 Ground steam bone, per ton 22.00@24.00 Unground steamed bone 16.00@418.00 Unground bone tankage 10.00@12.00
Cow Chucks 6½ @ 8 Steer Plates @ 8 Medium Plates @ 7½	@ 9 @ 9	Genoa style salami	Ground tankage, 6½ to 9%. 2.25@ 2.50 Crushed and unground tankage. 2.00@ 2.50 Ground raw hope par ton 28.00@2.00
Briskets, No. 1	@ 7 @20	Mortadella, new condition	Ground steam bone, per ton22.00@24.00 Unground steamed bone 16.00@18.00
Briskets, No. 2	@15 @ 55 45@ 5	Capricola	
Fore Shanks	@ 7 @ 6	SAUSAGE IN OIL.	HORNS, HOOFS AND BONES.
Fore Shanks	@25 @55	Bologna style sausage in beef rounds	No. 1 horns
Strip Loins, No. 2	@45 @22 @40		No. 1 horns \$225.00@250.00 No. 2 horns 175.00@200.00 No. 3 horns 75.00@125.00 Hoofs black 22.00@24.00
Sirloin Butts, No. 2	@32 @28	Small tins, 2 to crate 7.00 Large tins, 1 to crate 8.00 Frankfurt style sausage in pork casings—	Hoofs, stripped 35,00@ 40,00 Hoofs, white 45,00@ 50.00
Beef Tenderloins, No. 1 @70 Beef Tenderloins, No. 2 @60	@75 @65	Small tins, 2 to crate. 6.50	Grinding hoofs
Rump Butts	28 @30 @25	Smoked link sausage in pork casings— Small tins, 2 to crate	Flat shin bones, heavies 90.00@ 95.00
Flank Steaks @20 Boneless Chucks @9 Shoulder Clods @15 Hanging Tenderloins @8	@10¼ @18 @14	SAUSAGE CASINGS.	Thigh bones, heavies 90.00@ 95.00 Thigh bones, light 80.00@ 85.00
rimmings @ 8	@13		No. 3 horns. 75,0062125,000 Hoofs, black 222,0062 24,00 Hoofs, stripped 35,0062 40,00 Hoofs, white 45,006 50,00 Grinding hoofs 20,0062 22,00 Round shin bones, heavies 100,0062112,00 Round shin bones, heavies 90,0062 95,00 Flat shin bones, heavies 90,0062 95,00 Flat shin bones, light 75,0062 80,00 Flat shin bones, lights 75,0062 80,00 Thigh bones, heavies 90,0062 95,00 Thigh bones, heavies 90,0062 95,00 Thigh bones, light 80,0062 85,00 Skulls, jaws and knuckies 80,0062 85,00 Note—Foregoing horns, hoofs and bones must be assorted, free from grease, hard and clean.
Beef Product.	8 @10	Beef rounds, domestic, per set	A
Hearts	3 @ 7 @30	Beef bungs, No. 1, per piece	LARD (Unrefined). Prime, steam, cash
Sweetbreads	7 @10	Beef weasands, No. 1, per piece	Drime steam loose 6:10 95
Fresh Tripe, H. C	@ 4 @ 5	Beef bladders, small, per doz	Leaf, raw @ 9.75 Compounds Neutral lard 1 \(\frac{1}{2}\)@12
Livers 814@10	9 @11		ACCRECATE TOTAL CONTRACTOR OF THE PARTY OF T
Strains Per 10 0 0 0 0 0 Hearts 3 3 0 5 Tongues 25 (336 Sweetbreads 22 (228 Ox Tall Per 10 5 (9 Fresh Tripe H C 0 Kidneys Per 10 0 Sweetbreads 0 0 Sweetbreads	9 @11 @11	Beef bladders, large, per doz. 1.55 Hog casings. medium, f. o. s	LARD (Refined).
Veal.	@11	Beef bladders, large, per doz. 1.55 Hog casings. medium. r. o. s. 90 Hog middles with cap, per set. 1.8 Hog middles, without cap, per set. 1.6 Hog hours export 23	LARD (Refined). Pure Lard, kettle rendered, per lb., tcs ##131/2
Veal.	@11 16 @18 11 @15	(F. O. B., CHI(*Mio.) Beef rounds, domestic, per set	LARD (Refined). Pure Lard, kettle rendered, per lb., tes 62 13 1/2 Pure Lard (1. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Veal. Choice Carcass .15 @15½ Good Carcass .10 @14½ Good Saddles .18 @24 Good Backs .8 @12 Medium Backs .6 @8	@11 16 @18	Hog bungs, large	LARD (Refined).
Veal Choice Carcass .15 @15½ Good Carcass .10 @14½ Good Saddles .18 @24 Good Backs .8 @12 Medium Backs 6 @ 8 Veal Product.	@11 16 @18 11 @15 22 @28 8 @14 7 @ 8	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes 6:1334 Pure Lard 6:13 Cooking oil, per gal., in bbls 6:135 Pakers special cooking oil. 6:135 Barcels, %c over tierces; half barrels, %c over tierces; tubs and palls, 10 to 80 lbs., ½c to 1c over tierces.
Veal Choice Carcass	@11 16 @18 11 @15 22 @28 8 @14 7 @ 8	Hog bungs, large	LARD (Refined). Pure Lard, kettle rendered, per lb., tcs 61334 Pure Lard 6a 3 Cooking oil, per gal., in bbls. 6a 1338 Pakers' special cooking oil. 61338 Barrels, 1/6c over tierces; half barrels, 1/4c over tierces; tubs and pails, 10 to 80 lbs., 1/4c to 1c over tierces. OLEO OIL AND STEARINE.
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Veal Choice Carcass 15 (2154)	@11 16 @18 11 @15 22 @25 8 @14 7 @ 8 8 @10 36 @40 27 @40 423 @31 @33	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes. 6133½
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Veal	@11 16 @18 11 @15 22 @25 22 @25 28 @14 7 @ 8 8 @10 36 @40 27 @40 @23 @31 @30 @15	Hog bungs, large	LARD (Refined).
Veal	@11 16 @18 11 @15 22 @25 8 @14 7 @ 8 8 @10 36 @40 27 @40 423 @30 @15 @14 @30 @18	Hog bungs, large	LARD (Refined).
Veal Choice Carcass 15 (2154)	@11 16 @18 11 @15 22 @25 22 @25 23 @14 7 @ 8 8 @10 27 @40 23 @25 24 23 @30 @15 @14 25 @25 @21 @31 @30 @15 @14 @30 @16 @30 @18 25 @25	Hog bungs, large	LARD (Refined).
Veal	### ### ### ### #### #### ############	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Veal	### ### ### ### #### #### ############	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Veal	@11 16 @18 11 @15 22 @25 28 @14 7 @40 27 @40 27 @40 223 @31 231 231 231 231 231 231 231 231 231 2	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Veal	### ### ### ### #### #### ############	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
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Veal	### ### ##############################	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes. 46 13 1/2 Pure Lard, kettle rendered, per lb., tes. 46 13 1/2 Pure Lard, kettle rendered, per lb., tes. 46 13 1/2 Pure Lard, kettle rendered, per lb., tes. 46 13 1/2 Pakers' special cooking oil. 64 13 1/2 Barrels, 1/2 cover tierces: half barrels, 1/2 cover tierces; tubs and pails. 10 to 80 lbs., 1/2 to 1c over tierces; tubs and pails. 10 to 80 lbs., 1/2 to 1c over tierces; tubs and pails. 10 to 80 lbs., 1/2 to 1c over tierces. OLEO OIL AND STEARINE. Oleo oil, extra. 9 6 91/4 Oleo stock 81/2 83/4 Prime No. 2 oleo oil. 84/2 83/4 Prime No. 2 oleo oil. 84/2 83/4 Prime No. 2 oleo stock 71/2 83/4 Prime No. 2 oleo stock 84/2 83/4 Prime No. 2 oleo stearine, edible. 84/2 83/4 Prime Oleo stearine, edible. 74/2 71/2 TALLOWS AND GREASES. Edible tallow 71/4 67/4 TALLOWS AND GREASES. Edible tallow 71/4 67/4 Tallows 71/4 67/4 Packers No. 1 loose tallow 6 6 6/4 Packers No. 1 loose tallow 5 6 5/4 White, choice grease 7 6 7/4 White, choice grease 7 6 7/4 White, 'A'' grease 7 6 7/4 Yellow grease 10 to 15 per cent acid 5/4 6/2 5/4 Yellow grease 10 to 15 per cent acid 5/4 6/2 5/4 Yellow grease 10 to 15 per cent acid 5/4 6/2 5/4 Yellow grease 10 to 15 per cent acid 5/4 6/2 5/4 Yellow grease 10 to 15 per cent acid 5/4 6/2 5/4 Yel
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Choice Carcass	### 11 ### 16 ### 11 ##	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Choice Carcass	@11 16 @18 11 @15 22 @25 28 @14 27 @40 27 @40 27 @40 27 @40 223 @23 2631 2631 2631 2631 2631 2631 2631 26	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Veal	@11 16 @18 11 @15 22 @25 22 @218 23 @14 27 @40 27 @40 27 @40 22 @23 23 @31 24 @30 25 @25 25 @21 26 @31 27 @40 28 @21 28 @31 38 @31 38 @	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
Choice Carcass	@11 16 @18 11 @025 22 @014 22 @014 7 @ 8 8 @10 36 @40 27 @40 28 @16 6018 20 @025 27 @025 27 @025 28 @14 20 @025 27 @025 28 @14 20 @025 28 @16 29 @025 20 @025	Hog bungs, large	Pure Lard, kettle rendered, per lb., tes.
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Retail Section

WAYS IN WHICH RETAILERS CAN SELL MORE

How They May Help the Housewife in Buying Meat

By Wesley Hardenbergh, Bureau of Public Relations, and Norman Draper, Washington Representative, Institute of American Meat Packers.

What can a retailer do to sell more meat?

Assuming:

That he advertises his business.

That his shop is well located.

That its exterior is inviting.

That its interior is kept scrupulously clean and sanitary.

That the clerks are neatly and cleanly dressed.

That the meats are displayed attractively on the counters and in the windows.

That he avoids over-buying, thus keeping his meats fresh and quickening his rate of turnover.

That he gives full measure in quantity and quality.

That his prices are "right" to bring speedy turnover with maximum results in sales and profits.

What more can a retailer do?

The retailer of meat can increase his trade by educating his customers; by taking pains to teach them what cuts of meat are suitable for this or that dish; why one cut is better than another for a definite purpose, and how to select good mean and care for it. He even may be able to give the housewife some tips on cooking which will be greatly appreciated. This sort of education of necessity will be slow to show results and must be continued. constantly and patiently, to return any results at all. But, if continued, it undoubtedly will show eventually the most concrete results possible-a larger and better satisfied trade.

How to Educate Customers.

How can the retailer educate his customers?

First, he should "sell" them on the value of meat as a food. He should tell them the truth about meat and its proper place in the diet: that it is high in nutritive value and contains practically all the food elements needed to sustain life: that its composition is most nearly like that of the human tissues which it nourishes and replaces; that it contributes more to the palatability of the diet than does any other food, thus aiding digestion; that it is the most important source of protein and of iron in the human dietary; that meats, especially liver and kidney, contain all known vitamins; that meat protein makes good the nutritive deficiencies of cereal protein, making the cereal more suitable for human food; that so far as known. taking meat even in large excess is not harmful, but that, on the contrary, a liberal proportion of meat in the diet serves as health insurance, and that a square meal, based on meat, fills a man or woman with

vim, vigor and vitality.

Having convinced his customers of the value of meat in the diet, the retailer must next teach them how to select and use it

The dealer can do nothing that will be of greater benefit both to the customer and to himself, if he can do so convincingly, than to point out the advantages of

forequarter meats and other less expensive cuts.

Good Points of Cheap Cuts.

He should explain that because a large number of meat buyers make their selection of meat solely according to habit or a few well-known cuts are in great demand, at relatively high prices, while the rest of the meat animal sells with difficulty at low prices. He should point out further, and demonstrate with figures, that this unsound method of buying has pre-vailed to such an extent that the loins and the ribs of beef animals, so-called "choice cuts," which constitute less than one-quarter of the weight of the meat animal, sell for about as much as the remaining threefourths; and that, naturally enough, the cuts in demand must bear the burden of price for whatever cuts the retailer is unable to sell, or which he must sell at a

It is probable that, in the course of this explanation, the customer will interrupt to

"Well, doesn't the fact that so many people buy only loins and ribs indicate that they are better than the rest of the

The retailer must be ready with his answer.

No, madam, it does not," he should explain. "The choice cuts are comparatively easy to prepare, since they ordinarily are very tender and do not require long cooking. Steaks especially may be prepared easily and quickly. For these reasons the loin and rib cuts are the choice of many persons. Most forequarter cuts and some cuts from the hindquarter simply are neglected by the majority of consumers despite the fact that these cuts are wholesome, nutritious and appetizing and that they sell in the retail stores at com-paratively low prices.

The Luscious Chuck

"I tell you madam, the woman who knows how to cook chuck steak, corned beef, lamb stew, pot roasts and similar dishes finds herself in position to obtain unusual bargains in meats. And it doesn't take much trouble to prepare these dishes. Any of them can be prepared successfully on any kind of a stove. The pressure cooker and the fireless cooker can be used advantageously in cooking the less expen-

Your Customers Do Not Know

Tell them-over the counter, on display cards and through advertising-that:

Liver and kidney especially con-

tain all the known vitamines;
Meats make cereals more suitable as foods;

Eating an excess of meat is not harmful:

It takes more gas to broil a chop for ten minutes at high temperatur than to simmer a forequarter cut four hours;

Good corned beef can be made from the "plate," which the butcher frequently sells at a loss of from two to five cents a pound.

The customer may suggest that the low prices of the inexpensive cuts are more than offset by the increased fuel cost, necessitated by the fact that some of these cuts require longer cooking than do loin and rib cuts. To this argument the retailer may answer that if the heat be regulated properly it costs more to broil a chop for ten minutes at a high temperature than it does to simmer a forequarter cut for four hours. He should point out, of course, that it doesn't take four hours to cook most of the less expensive cuts, even though some of them are less tender and somewhat more difficult to prepare than steaks and roasts.

The retailer should utilize every opportunity and go out of his way to make op-portunities to tell housewives the uses and possibilities of the less expensive cuts.

For example, he can well point out the virtues of chuck. He can say that the virtues of chuck. He can say that the chuck has high value as solid meat; that it has an excellent flavor; that it is excellent for pot roasts; that palatable and appetizing steaks can be cut from it; that it is suitable for stews, casserole dishes, spiced beef, beef loaf and hamburger steak, and that it is economical meat, both because it is relatively low priced and because it consists of about two-thirds lean meat, one-fifth fat and only one-quarter to one-eighth bone. ter to one-eighth bone.

The Virtues of Plate and Shank.

He also may tell the housewife that the plate, which frequently sells at a loss of from two to five cents a pound, makes the best corned beef and that, boned and rolled, it can be used as a boiling piece or for a roast.

Of the shank he can say that it is adapted for soup, stews and hamburg steak; that it contains much valuable flavoring matter and that it averages high in protein. He can say that the flank is virtually boneless and can be used with very little waste and that it makes a good stuffed roll or an excellent pot pie.

He should not fail to point out that the less expensive cuts come from the same meat animal as the so-called choice cuts and are nourished by the same food.

The use of window streamers with specific buying suggestions, such as "Take Home a Nice Pot Roast" or "Why Not Baked Spareribs Today?" will help greatly to influence the buying of forequarter meats.

One retailer in Chicago during the last year had an interesting experience which is worth relating. This man caters to a is worth relating. This man caters to a wealthy class of customers. For years he had not had a call for a pot roast. But no sooner had he put up a pot roast streamer—one of many thousands then being distributed by the Meat Council of Chicago—than his customers began demanding pot roasts. Now this retailer handles from six to ten chucks a week. Scores of retailers can relate similar experiences.

Poster Service Pays.

In this connection, it is worth noting that a regular twice-a-month poster service is being offered by the National Association of Meat Councils, 22 West Monroe street, Chicago, in order that retailers may have, at a cost of only a few cents a week, high-grade illustrated posters featuring such meat dishes, for example, as por roast or baked ham butts. No retailer acting alone could hope to provide anything quite so good in the way of posters carry-ing an appetizing appeal to the housewife; the cost would be prohibitive. thousands of retailers throughout the country subscribing to a regular service,

the cost to any individual retailer becomes almost negligible.

That buying suggestions to customers should also be made through attractive counter and window displays goes without saying. During the sausage campaign in chicago the value of having sausage displayed invitingly and appetizingly was clearly demonstrated when many a retailer doubled and even tripled his sausage sales by putting in an attractive sausage window. So, while talking about meats, the retailer assuredly should not neglect to display them to the best advantage.

What Can Be Done with Brisket.

The retailer can well demonstrate the possibilities of inexpensive meat by relating "The Miracle of the Brisket." This tale, as told to his customers by a leading retailer in one of our largest cities, runs approximately as follows:

"A three-pound piece of brisket may be cut so as to yield almost two pounds for serving whole. The remainder, cut up and cooked with a quart of water and various seasonings, will make the foundation for an excellent vegetable soup or onion soup with cheese. That part of which is to be used in soup making should be cooked slowly in a slightly covered kettle for about five hours. The meat and fat are then removed from the bone and separated while still warm and then set aside to cool.

Whatever meat remains from the two pounds served whole may be added to the soup meat and both may be chopped and used as hash or meat balls. If served with a little gravy, they will furnish the main

dish for another meal.

"All pieces of fat should be put into a covered kettle with a little water and cooked until the bits are crisp and the fat clear. If the mixture is then put through a fine strainer the result is a cup of rendered fat and a cup of fat scraps for future use in cooking. These scraps, when salted, will make a delicious sandwich filling, or they may be added to gravy for baked or boiled potatoes.

"Thus the three pounds of brisket beef have yielded one meal of fresh meat; one soup for the main part of a dinner; one reheated meat dish; one service of fat scraps, and one cup of rendered fat. Although considerable labor is involved, the cost of the meat has been very low. At the time this article is being written, a three-pound piece of good brisket beef in a typical retail cash and carry market costs (unboned) around forty-five cents."

Will not practical information such as this, passed on to the housewife, win her confidence and gain her steady trade?

Passing Along the Bargains.

When the retailer has fully "sold" the housewife on the idea that the loins and the ribs are not the only good cuts in the meat animal, he will find plenty of op-portunity to build up good will by giving her marketing information. During some weeks, for example, he can point out that chuck, which makes excellent pot roasts, is selling so much below the market prices of other cuts that she will find this par-

ticular cut a great bargain.

It frequently happens that, owing to conditions of supply and demand, some cuts sell relatively low as compared with the prices of other cuts. Thus, during some weeks, standard ham may be a much better bargain than standard bacon, fresh pork shoulders may be selling below par-ity with pork loins, or prime chucks may be dragged on the market at a fifth the

price of porterhouse steak.

A few retailers capitalize these fluctuations by buying a good supply of the cut which is selling below the market, and then passing on to their customers the news that here is a bargain. During the last summer, for example, a leading retailer in a large Middle Western city found that choice chucks were dragging on the market, selling at wholesale for five and six cents a pound, while loins were bringing more than five times as much. This re

tailer advertised chuck for pot talked chuck and pot roasts to all persons who entered his shop, issued recipe cards for pot roasts, and otherwise educated his customers. The result was that he was customers. able to sell advantageously a large quantity of chuck at a very reasonable price.

If the retailer will direct the housewife's choice carefully, faithfully and effectively, his efforts are certain to result in a friendlier and steadier customer.

In this connection, the retailer will find the table previously mentioned, showing the food value of the different cuts, of great use. He can show, for instance, that with chuck selling at fifteen cents a pound and sirloin steak at forty-five, the house wife can get approximately three times as much food value for the same money if she buys chuck instead of sirloin.

Information of this sort a good housewife wants to have, and needs to have, but it cannot all be given to her over the block, by word of mouth. Lack of time forbids it. Some of it may be given by letter or in leaflets and pamphlets that are handed out by the salesmen or wrapped up with the meat.

Many retailers will argue that they haven't the time to do these things; that they and their salesmen cannot bother to pick out meats for each customer and to

Boston Meat Council

Many leading meat retailers of Boston, Mass., together with representatives of the meat packing inaustry met at the City Club in that city on Wednesday afternoon, April 26, and took formal steps to launch the Boston Meat Council.

Discussion started after a dinner had been served to those present, and it was generally agreed that Boston was ripe for the meat council idea. The retailers present expressed themselves to this effect, and the packer representatives were of the same opinion.

As a result of the discussion, the following officers were elected to get the Council under way and work out a program of activities: President, Charles H. Brown, a prominent retailer of Everett, a suburb of Boston; vice-president, A. H. Van Pelt, district manager for Armour & Company at Boston: secretary, C. H. Simons, district manager for Swift & Company; treasurer, Charles Porter, Boston retailer.

These men are all well-known in Boston and their names are a guarantee of a substantial trade organization.

At the close of the meeting Mr. Brown issued a statement in which he said the big task of the Council would be to show the Boston housewife how to buy more effectively. and how to save money on her meat bills. He stated that some person appointed by the mayor or other public official would be invited to sit in the Council meetings and represent the consumer's viewpoint.

A committee of organization was appointed by Mr. Brown, and full organization activities will be started in the near future.

pass out marketing advice to every person who enters the place.

Advertising a Necessity.

To arguments of this sort there is but one answer: It will pay to take the

Another way by which the retailer of meat can greatly enhance his good will is by showing his customers how to select meat and how to tell good meat from bad. He should begin by explaining to them that, according to the government classifications, there are four standard grades of meat—choice, good, medium and common, and that, although tasty, wholesome meat is obtainable in each grade, there is much difference between a steak from a choice beef carcass and one from a common beef carcass. It will aid the customer greatly in learning to choose good meat if the retailer can have handy a number of cuts of different grades for use in concrete demonstrations.

The retailer should point out that thickness of lean meat and liberal depth of fat are general indications of quality: that choice beef has a smooth, uniform outside covering of clear white fat and a firm, fine textured flesh of light red color; that it is finely marbled; (i. e., has a mixture of fat through the lean flesh); that good grade beef has lean meat of a firm, even texture, and a light to medium red color; that the fat is firm and usually a creamy white and so distributed through the lean as to produce a slightly marbled or mottled effect; that the outer covering of fat is smooth, firm and evenly distributed, and that common grades of beef have a higher percentage of bone to meat than the better grades.

Natural Colors of Good Meats.

The dealer also should inform the customer that good quality veal is naturally pink in color, and somewhat less firm than beef; that pork is dark pink, and that the fat is less firm than that of either beef or mutton; that it should cut easily and have a layer of pure white fat, and that mutton is a dull brick color and lamb a light pink or gravish red, according to the age of the animal. He also should tell the consumer that meat should be firm to the touch and elastic, and that it should smell fresh

It is quite possible that the customer would like to know why the choice grades of beef sell higher than the medium and common grades. The reasons, of course, common grades. The reasons, of course, are that choice beef is better than other grades, and also that there is much less of it than there is of the other grades. Prime and choice steers, for example, together constitute ordinarily less than 5 per cent of the total number marketed. Good steers comprise between one-fourth of the

total and medium steers about one-half.

Another reason why the better grades of beef sell at relatively higher prices is that the cuts of good grade beef are some-what more palatable than cuts of common A series of tests made by the Department of Agriculture shows, moreover, that shrinkage in cooking is much greater when common meat is used.

After the Meat Is Bought.

It also will be well for the retailer, in his endeavor to increase his sales by building up his good will, to tell customers how to care for meat after they have se-lected it and taken it home.

For example, he should urge upon the housewife the wisdom of unwrapping meat when it reaches the home, pointing out that when meat is put away with the paper still on it, the paper not only will absorb valuable juices from the meat, but also frequently will stick to it and that, therefore, it should be unwrapped as soon reaches home, put on a plate and placed in the icebox.

Whenever possible the bone and the fat should be separated from the left-over meat as soon as the meal is finished, since this can be done easier and better while the food is still warm.

It sometimes happens that, owing to a change of plans, meat purchased by the housewife for use today may be kept over

for a day or two. If refrigeration is good the delay probably will cause no harm. The retailer may well point out, however, that the use of a marinade would be a wise precaution, especially since both beef and mutton are really improved by it.

The marinade may be made by mixing a tablespoonful of vinegar or lemon juice with two or three tablespoonfuls of olive, corn, or peanut oil, and adding a light seasoning of salt and pepper. A bit of bay leaf or onion may be added also, but if this is done the meat should be covered tightly if placed afterward in a refrigerator.

The meat to be treated should be placed in an earthen dish and coated thoroughly with the marinade. It should be turned occasionally to distribute the coating evenly. The amount of dressing is determined by the quantity of meat with which it is to be used. The oil enriches the meat; the acid makes it tender and the combination protects the surface from the air and aids in preserving it. A good steak is made better and poor meat more palatable by this process.

By explaining these things to the customer, and giving her other bits of information about meats which his own experience tells him will be useful, the retailer of meat can build up an enormous fund of good will among his patrons, a factor which, taken in conjunction with improved displays, effective advertising, the distribution of recipe cards or booklets, the selling of quality meats and the keeping of a clean, sanitary, attractive store, is certain to result not only in a larger volume of business, but also in a better satisfied group of customers.

TOLEDO RETAILERS ADD MEMBERS.

Toledo, O., retailers are setting a good pace for others in the active way in which they are building up their organizations. On Easter Monday there was launched a campaign for new members for both the Toledo Master Butchers' Association and the Meat Council of Toledo, which promises to be a great success. The drive for members has been well organized and is under the direction of district captains, who include the following: E. A. Pinkelman, Phillip Rapp, Walter Horne, B. F. Katz and A. C. Busack.

That the retailers of Toledo are a good group to be associated with is seen in the cordial social spirit throughout the whole body. For example, one of the members is going abroad in a short time and in his honor a farewell party has been arranged at Kapp's Hall with dancing, cards and refreshments, to which all the members of the Association, their wives, daughters, sons and friends are invited.

To sustain the interest in the regular meetings of the Association, there was introduced a little competition in the matter of attendance. It has been announced that the winners in the attendance contest are Members Vobbe and Rausch and August Schmidt, who received as prizes a stick knife and a skinning knife, respectively.

CLEVELAND PROVISION SLOGANS.

Due to an inaccurate report on the activities of the Cleveland Meat Council the impression was given in an item last week that the council had adopted a formal slogan which ran: "The Meat of the Meal is the Meat," and that the council had posters put up in Cleveland boosting "Wiltshire" products. This was, of course, incorrect, as the slogan is one adopted by the Cleveland Provision Company only, and it is used solely in pushing their products. The "Wiltshire" brand is the well-known brand of the Cleveland Provision Co.

RETAILERS USE MOVIES TO TEACH.

To educate the meat consuming public the Butchers' and Grocers' Association of Sandusky, O., has inaugurated a series of educational movies. One of the films shown was one depicting the stock yards of Chicago. The packing industry and its manufacturing processes were shown step by step. The film showed how through these yards 15,000 hogs, government inspected, pass each day and how they are prepared for market. Many Sandusky people have visited these yards but many matters such as the sanitary method of meat preparation and the different cuts were brought home to the spectators in a new and more forceful way.

COMMENDS RETAIL MEAT SURVEY.

The recent survey of the retail meat trade made by the U. S. Department of Agriculture, which was printed in full in several successive issues of THE NATIONAL PROVISIONER has aroused much interest among retailers. Many have expressed themselves as being pleased with the excellent work done for the meat trade by the experts who carried on the investigation.

One of those who has so expressed himself is John A. Kotal, National Secretary of the United Master Butchers of America. In the following letter Mr. Kotal sets forth his views on this report on the meat trade:

Editor, The National Provisioner:

In reply to your letter relative to the government report of the retail meat investigation in which you ask for comments, I am glad to have an opportunity to comment on this able report.

Until a few years ago the efforts of the Department of Agriculture were directed toward other endeavors, principally the improvement and increase of production. Little, if anything, accurate was known of the retail meat trade until 1919, when some retail investigation was made.

In the meantime anyone having "a bone of contention" picked on the retailer as the profiteer. Accusations of 100% profits and sometimes more were hurled at the retailers, regardless of the statements of honorable men to the contrary. Because no information from any reliable source could be had, the doubt of the retailers' honesty still remained.

honesty still remained.

The report of the U. S. Department of Agriculture on the retail meat trade released for publication February 17, 1922, showing costs of selling meats through retail stores is in my opinion a very able survey of the retail meat trade and of great value to all interested parties.

The report is the work of practical men as investigators. Theoretical knowledge, unless based on practical facts, is of little value to the business man. But here we have good practical business facts of special interest to the retailer and others in the meat industry gathered by able government experts after months of close

I am more than pleased that the work and report were supervised by authorized agents or officials of the government, whose only aim is to serve the public at large and not any particular class. From now on I shall carefully read trade journals that formerly attacked all retailers with the charge of "profiteer" to the extent of very large percentages, for a change of attitude, possibly retractions. For a great injustice was done the retailer by persons otherwise well informed, but ignorant on meat retailing. And the injury was reflected through the entire meat

industry. The report is in every way commendable.

Very truly yours.

JOHN A. KOTAL, National Secretary.

LOCAL AND PERSONAL.

Geo. Lynn has opened a meat market in Rodney, Ia.

Good Bros. have opened a meat market in Upper Sandusky, O.

A. Bennes will soon open a meat market in Churches Ferry, N. D.

Einer Hallum will shortly open a meat market at Hitterdal, Minn.

Perk Bros. have opened another meat market in Greenville, Mich.

The meat market in Lowry City, Mo., was recently destroyed by fire.

G. B. Ogle has added a meat department

to his general store at Waldo, Wis. Frank Bruder has sold his meat busi-

ness at LaSalle, Ill., to Emil Dagraet.

Harry Augdahl has purchased the meat market of N. L. Lyons at Albany, Ill.

L. D. Crandall has purchased the meat market of Glen Smith at Byron, Nebr.

William Cowles and T. McEnderfer have opened a meat market at Leslie, Mich.

M. M. Misner has purchased the meat market of Smaha & Son at York, Nebr.

Thure Peterson will open a meat market in the Paist grocery at Valley, Nebr.

F. H. Roberts is adding many improvements to his meat market at Farragut, Ia.

ments to his meat market at Farragut, la.

W. B Bera has purchased the meat market of J. A. Fuhrman at Nashville, Mich.

Harold Scott has purchased the meat market of Mrs. F. V. Schull at Corning, Ia. Sorensen Bros. are erecting a meat mar-

ket on Bridge street at Albert Lea, Minn. F. M. Houser will open a second meat market on Third street, West Fairview, Pa.

P. L. Wall has uurchased the meat business of Weaver Bros. at Moundridge, Kans.
The meat market of Peter Bruguier at

The meat market of Peter Bruguier at Sturgeon, Pa., was recently destroyed by fire.

Louis Lanza has opened a meat market at 921 Chartiers avenue, McKees Rocks, Pa.

John Jaroch has opened a meat market known as the East End market at Bad Axe, Mich.

Larson Bros. will open a second meat market on West College street, Albert Lea, Minn.

The new Parshall meat market is in the process of construction at Port Angeles, Wash.

The Manhattan meat market has opened a new market at 423 Main street, Jacksonville, Fla.

Goold Brothers have purchased the meat market at Geneva, Nebr., from Schweizer and Swanson.

A fourth Buehler Bros, meat market will

shortly be opened at 1407 Douglas street.
Omaha, Nebr.
Raymond Bohonek has opened a new

meat market in the M. J. Knapp building at McGregor, Ia. Clyde Vaill and H. S. Siddall have purchased the meat market of A. M. Miller at

New London, O.
Stewart Brodie will conduct a meat market in the Flaugher block on Eagle

street, LeMars, Ia.

L. Leach & Son have opened a third meat market in Beloit, Wis., located at

1821 Park avenue.

The Goldendale Meat Co., Goldendale.
Wash., are adding many improvements to
their meat market.

Louis Finkbeiner has purchased the meat market of the Nelson Beef Co., Poughkeepsie, N. Y.

The meat market of Arthur Bauler, 321
West Broadway, Minneapolis, Minn., was
recently destroyed by fire.
Hans Barton and Frank Adams have

Hans Barton and Frank Adams have purchased the meat market of Frank Curtis on Main street, Prenton, Mo.

Dan Booth bought the City meat market, Sac City, Ia.

Stewart Brodie will open a meat market at Le Mars, Ia.

H. C. Schweitzer opened a meat market at Billings, Mont.
Roy Hollstien has opened a meat market

in Chadron, Nebr.
Fred Holler has opened a meat market

at Shamokin, Pa.
M. Glass & Sons will open a meat busi-

ness at Houghton, Mich.

Bay Brothers have engaged in the meat business at O'Neill, Nebr.
Finley & Mann will open a new meat market at White Bluffs, Wash.
E. E. Williams has purchased Henry's meat market at Kirkland, Wash.
A new meat market was opened at McGregor, Ia., by Raymond Bohnonek.

Joseph Smerda has purchased the Tun-berg meat market at Tekamah, Nebr.

C. H. Kelley has taken charge of the Haigley meat market at Haigler, Nebr. The Mohican Co. has opened a grocery, meat and fish market in Kingston, N. Y.

J. A. Fuhrman has sold out his meat market at Nashville, Mich., to W. B. Bera. John Schmitt has opened a meat market at 465 Orange street, Roseville, N. J. Martin Maloney, Jr., has purchased the Peter Filla meat market at Arcadia, Minn. John Mulraney has purchased the meat market of Ralph Stevens at New Egypt,

Danielson & Anderson will open a meat market at 1305 Fourteenth avenue, Rock-

ford, III.

F. J. McCarty has opened a new meat market at 615 East Monroe street, Springfield, III.

Harry T. Wilson has opened a meat mar-ket at Columbia and Garrey streets, Po-

Rose & Howard have succeeded to the meat business of Waddell & Boyer, Charlotte. Mich.

C. F. Haworth has purchased the Palace meat market at Clay Center, Nebr., from

Clyde Cruise.

Hershey & Welsh have purchased the City meat market from Kuklis Bros. at

St. Paul, Nebr.
The Old Dutch Market, Inc., has opened a large market at 216 North Eutaw street, Baltimore, Md.

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Abel & Son have purchased the butcher shop and grocery store of H. J. Upton at Tekonsha, Mich.

A meat market was opened in the Geo. Gudge building at Burke, S. D., by Mr. Hughes of Colome.

A new meat market, known as the Per fection market, has been established at Johnstown, Pa.

Al Frieze and C. H. Conlee have purchased the meat market of Leonard Hoffman. Condon, Ore.

Vali & Landenberger have purchased the meat market of George Van Horn, Grand Lodge, Mich.

John Kuchenreuter's meat market, 3519 Lisbon avenue. Milwaukee, Wis., was damaged by fire recently.

The grocery firm of Prillman & Priddy

at Huntington, Ind., has added a meat department to its store.

The Wagners Market Co. has purchased Herman Labrecque's meat market at Campbell's Junction, N. J.
Honas Methaugn and Olaf Johnson have purchased the meat market of Andrew Tagland at Rushford, Minn.

. E. Reynolds has purchased the meat market in Rockaway, Ore., formerly conducted by Peterson & Bennett.

J. L. McNamara has purchased the gro-

J. L. McNamara has purchased the gro-cery and meat business of Allen & Eysinger at Oriskany Falls, N. Y. Geo. Hooker has purchased the Lake City meat market at Lake City, Mich., formerly conducted by Jackson & Schlegel. The Quality Cash Market Co. has added another store to its list. Store No. 9 was

recently opened at Clifton Springs, N. Y.
Herman Craig and Ed Stuckey have
opened a meat market and sausage factory in the Craig building, Prairie du Chien,

Bob Knapp and Fred Semler have purchased the Standard market at Greenwich, Conn., and are adding many ments.

Albert McCray, Lamoille, Ill., has pur-chased the interest of his partner, Chester Russman, in the McCray & Russman meat market.

Claude Sabin has sold his interest in the Woodland Meat Market, Woodland, Mich., and Raffler & Sawdy are now owners

Wade Ewart and Walter Wilkins have bought the meat market and grocery of W. P. Bray at Mississippi and Carol streets,

Marianna, Ark. McCarty & Co., of Springfield, Ill., will open a store at 615 East Monroe street, and will refer to their new establishment

as the Palace market.

Herbert Fetherlin, who conducted a meat market in the C. E. Brown grocery store on West Chestnut street, Pittsburgh, sold his interest to Mr. Brown re cently.

BAKER SYSTEM



Perfect Refrigeration

That's what you need for the preservation of your meats, butter, fruits, vegetables, etc.

You realize that ice is too expensive too sloppy, and makes your ice box wet and musty. The uneven temperature results in considerable loss to you through meat trimmings and spoilage.

Install the Baker System Mechanical Refrigeration

Reliable Temperature Cheaper Than Ice Easy to Operate Lasts a Lifetime

With the Baker System you have absolute control of the desired temperature and can cut out the ice bills. A steady and dependable circulation of cold dry air will reduce your loss through spoilage and trimmingsyour box will be dry and sanitary. Write for Bulletin No. 42-D

Baker Ice Machine Co. Omaha, Neb.

\$200 REWARD

WILL be paid to the first party furnishing information which will directly result in locating my father. He is a butcher by trade, about 65 years old, has blue eyes, is 5 feet, 5 inches tall and wore a mustache when last seen. Was last heard of somewhere in Illinois. His family is very anxious to see him. Wire, phone or write W. A. Sack, Sanitary Meat Market, Boyne City, Michigan. For Sausage Makers

BELL'S

Patent Parchment Lined

SAUSAGE

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SAUSAGE

SEASONINGS

For Samples and Prices, write

THE WM. G. BELL CO.

BOSTON MASS.

New York Section

V. D. Skipworth, vice-president of Wilson & Company, Chicago, is in New York this week

Fred Seavery, Dallas, Tex., and H. L. Beecher, New Orleans, La., were recent visitors on the New York Produce Ex-

S. S. Hamilton, produce department, and Howard Wilcox, summer sausage department, Morris & Company, Chicago, are in town this week.

T. E. Ray, branch house department, and H. B. Carr, beef department, Swift & Company, Chicago, are spending the week in New York.

The Wilson Fellowship Club will hold their annual outing and picnic at Ronkon-koma Lake, which is about fifty miles out on Long Island, on Sunday, June 18th.

P. L. Robertson, in charge of the cut meat department, and G. W. Toman of the beef department, Omaha office of the Cudahy Packing Company, have spent a few days in town.

Burt Kennedy has just returned from a three years' stay in the Argentine in the interest of Swift & Company. Mr. Kennedy is at present located in the New York office of the company.

The Bronx Branch of the United Master Butchers of America have elected the following delegates to the state convention in Buffalo on June 12th: Louis Bauer, Phillp Gerard, Charles Schwalm and Rudolph Schumacher.

Prices realized on Swift & Company's sales of carcass beef in New York City for the week ending April 22, 1922, on shipments sold out ranged from 12.00 cents to 14.50 cents per pound, and averaged 13.57 cents per pound.

John J. Doheny, assistant in marketing livestock and meats, U. S. Bureau of Mar-kets, celebrated his first wedding anniver-sary last week. As Mrs. Doheny's birth-day anniversary fell on the same day the occasion called for a double celebration.

Geo. M. Worman will retire from the firm of George F. Taylor & Co., Inc., on May 1st and will open an office at No. 2 Rector street, where he will conduct a brokerage business in fertilizer materials, packinghouse by-products, chemicals, Mr. Worman was connected with Swift & Company for a number of years, and at the time he entered the firm of George F. Taylor & Company, Inc., in 1918 was manager of the Harrison, N. J. plant.

Fred Hirsch, representative of the Bronx Branch, United Master Butchers, has returned to business after an illness of four weeks' duration. Mr. Hirsch finds of four weeks' duration. Mr. Hirsch finds the work of his new position even more strenuous than that of the presidency, in-asmuch as it covers the plate glass fund, fire insurance and a few other duties. Re-cently the Branch presented Mr. Hirsch with a brief case to carry the books of the various projects under his care.

The U.S. Bureau of Markets will remove their livestock and meat offices on May 7 to No. 424 West 14th street. The object of the move is for the purpose of

better serving the trade, as the new location is in the heart of the market dis-trict. The officials of the department extend an invitation to the members of the industry whenever in the market to call, and they will be glad to assist them in every way possible.

The following is a report of the New York City Health Department of the num-York City Health Department of the number of pounds of meat, fish, poultry and game seized and destroyed in the city of New York during the week ending April 22, 1922; Meat.—Manhattan, 1,586 lbs.; Brooklyn, 30 lbs.; The Bronx, 126 lbs.; Queens, 51 lbs.; Richmond, 210 lbs.; total, 2,003 lbs. Fish.—Manhattan, 745 lbs.; Brooklyn, 300 lbs.; total, 1,045 lbs. Poultry & Game.—Manhattan, 480 lbs.; The Bronx, 9 lbs.; total, 489 lbs.

LENT CONSUMERS TAKE GOOD CUTS.

Consumption of meat in New York during Lent showed a decrease compared with similar periods in other years, according to wholesale meat dealers. However, the consumers ate the more costly meat and more porterhouse and tenderlyin steaks than usual. The chapter out. loin steaks than usual. The cheaper cuts found virtually no demand, according to both wholesale and retail dealers.

Speaking of the demand for the higher-

priced cuts of meat, August F. Grimm, chairman of the Meat Council of New York, 17 East Forty-second street, said

"The result is that, although porter-house steaks are selling for three times the price of chuck steaks, the demand for porterhouse cuts is twice that for the cheaper cuts.

"Figures collected by the Meat Council show that the forequarters of the beef animal, comprising the chucks, plates and other coarser cuts and amounting to 42 per cent of the total, are at present paying for only 23 per cent of the animal and the choice hindquarters, amounting to 58 per cent of the total, are now paying for 77 per cent of the animal. There is almost per cent of the animal. There is almost no demand now, however, for the cheaper forequarter cuts and the price difference will vary more if the present tendency continues. Most New York retailers say that they are now selling two hindquarters to one forequarter of beef.

"A survey of average retail meat prices also shows that 30 per cent of the meats are selling for less than 21 cents a pound; 24 per cent for 21 to 30 cents; 22 per cent for 31 to 40 cents and only 24 per cent for more than 40 cents a pound."

PORK CUTS AT NEW YORK. (Special Report to The National Provisioner from H. C. Zaun.) New York, April 26, 1922.—Wholesale

New York, April 26, 1922.—Wholesale prices on green and sweet pickled pork cuts in New York City are reported as follows: Pork loins, 28c; green hams, 8-10 lbs., 27c; 10-12 lbs., 26c; 12-14 lbs., 25c; green clear bellies, 8-10 lbs., 17c; 10-12 lbs., 16½c; 12-14 lbs., 16c; green rib bellies, 10-12 lbs., 17c; 12-14 lbs., 16c; sweet pickled clear bellies, 6-8 lbs., 16c; 8-10 lbs., 16c; 10-12 lbs., 15½c; 12-14 lbs., 15c; sweet pickled rib bellies, 10-12 lbs., 15½c; 12-14 lbs., 25c; dressed hogs, 16½c; city steam lard, 11c; compound. 13@13¼c.

Western prices on green cuts are as follows: Pork loins, 8-10 lbs., 25c; 10-12 lbs., 24c; 12-14 lbs., 23c; 14-16 lbs., 22c; skinned shoulders, 16c; boneless butts, 24c; Boston butts, 18c; lean trimmings, 17c; regular trimmings, 8c; spareribs, 12c; neck ribs, 4c; kidneys, 5c; livers, 2c; pig tongues, 13c; pig tails, 11c.

WHOLESALE DRESSED MEAT PRICES.

Wholesale prices of Western dressed fresh meats were quoted by the U.S. Bureau of markets at Chicago and three Eastern markets on Thursday, April 27, 1922, as follows:

Fresh Beef-				
STEERS:	CHICAGO.	BOSTON.	NEW YORK.	PHILA.
Choice	\$14.50@15.00	\$@	\$15.00@15.50	\$@
Good	13.50@14.50	14.00@14.50	14.00@15.00	13.50@14.50
Medium	12.50@13.00	13.50@14.00	13.50@14.00	13.00@13.50
Common	11.90@12.00	12.50@13.50	13.00@13.50	@
COWS:				
Good	10.50@11.00	12.50@13.00	11.00@12.00	12.00@12.50
Medium	9.50@10.00	12.00@12.50	10.00@11.00	11.00@11.50
Common	8,50@ 9.00	11.00@12.00	9.50@10.00	
BULLS:				
Good	@	9.00@10.00	@.,	@
Medium	@	8.00@ 9.00	9.00@10.00	@
Common	7.25@ 7.50	7.00@ 8.00	8.00@ 9.00	@
Fresh Veal-*				
	45 00 040 00		15 00 0 15 00	10.000
Choice	15.00@16.00	@	15.00@17.00	18.00@
Good	14.00@15.00	@	13.00@14.00	16.00@17.00
Medium	12.00@13.00	12.00@14.00	12.00@13.00	15.00@16.00
Common	8.00@10.00	10.00@12.00	10.00@11.00	12.00@14.00
Fresh Lamb and Mutton-				
LAMBS:				
Choice	30.00@31.00	31.00@32.00	33.00@35.00	33.00@34.00
Good	29.00@30.00	30.00@31.00	30,00@32.00	31.00@32.00
Medium	27.00@29.00	28.00@30.00	27.00@28.00	30.00@31.00
Common	23.00@26.00	25.00@28.00	25.00@27.00	@
YEARLINGS:	20.00 @ 20.00	20.00 (0 20.00	20.00@21.00	
Good	@	22.00@24.00	@	@
Medium	@	20.00@22.00	@	@
Common	@	16.00@20.00	@	@
MUTTON:	(4,	10.00@20.00		
Good	19.00@20.00	20.00@21.00	22.00@24.00	@
Medium	18.00@19.00	17.00@19.00	19.00@20.00	20.00@22.00
Common	13.50@16.00	14.00@16.00	17.00@19.00	@
	10.00 @ 10.00	11.00@10.00	11100@10.00	
Fresh Pork Cuts-				
LOINS:				
8-10 lb. average	24.00@26.00	23.50@24.00	25.00@26.00	24.00@25.00
10-12 lb. average	23.00@24.00	22.50@23.50	24.00@25.00	23.00@24.00
12-14 lb. average	21.00@22.00	21.50@22.50	23.00@24.00	21.00@23.00
14-16 lb. average	19.00@20.00	20.00@21.00	22.00@23.00	19.00@20.00
16 lb. over	17.00@19.00	17.00@19.00	21.00@22.00	16.00@18.00
SHOULDERS:	_	_		
Plain	@	@	@	@
Skinned	15.00@16.00	@	15.00@16.00	15.00@15.50
PICNICS:			_	
4-6 lb. average	14.00@14.50	15.00@15.50	@	14.00@15.00
6-8 lb. average	13.50@14.00	14.50@15.00	14.00@15.00	@
BUTTS:	-	_	_	_
Boneless	@	@	@	@
Boston Style	17.00@18.00	@	18.00@20.00	17.50@18.50
the name of the last of the la				

^{*}Veal prices include "hide on" at Chicago and New York.

CANADIAN LIVESTOCK IN MARCH.

Sales of livestock at principal Canadian centers during the month of March, 1922, with comparisons, are reported by the Dominion Department of Agriculture as fol-

lows:						
		CATT	T.E.			
				Top pri	ce good	steers
		-Sales			00-1,200	
		Same month,	Month	Month	Same month,	Month
*	Mar.	1921.		Mar.	1921.	
Toronto (U.	21,505	28,039	20,483	\$11.00	\$11.00	\$8.00
Montreal (Pt. St. Chs.)	1,653	2,155	2,246	8.15	12.00	8.00
Montreal (E.						
End)	1,496				12.00	8.00
Winnipeg		8,025		7.25	9.50	6.65
Calgary						7.00
Edmonton				6.50		7.00
Prince Albert			46	5.50		4.50
Moose Jaw	407		300	6.50		6.50
		CAL	VES.			
				Top pri	ce good	calves
	Month				Same	
		month.			month.	
	Mar.		Feb.			
Toronto (U.						
S. Y.) Montreal (Pt.	6,633	5,436	4,195	\$14,00	\$15.00	\$15.00
St. Chs.)	6,437	5,625	2,175	12.50	14.50	13.00
Montreal (E. End)	5,515	5,459	1.872	12.50	14.50	13.00
Winnipeg	1,070	674	604	11.00		11.00
Calgary	441	837	233	8.00		8.00
Edmonton		155	171	7.00		7.00
Prince Albert			1	5.00		
Moose Jaw			13	9.25		7.00
3100se 3aw		***		0.40	* * * *	1.00
		HO				
		-Sales		Top	price s	elects
		Same	Month	Month	Same	Month
		month,			month,	
	Mar.	1921.	Feb.	Mar.	1921.	Feb.
TDA- /TT						

Mar.	month, 1921.	Feb.	Mar.	1921.	Feb.	
Toronto (U. S. Y.)26,041	22,444	24,138	\$13.75	\$15.25	\$14.25	
Montreal (Pt. St. Chs.) 8,750	5,740	7.617	15.50	16.25	15.50	
Montreal (E. End) 3,470	2,707	3,403	15.50	16.25	15,50	
Winnipeg 15,269 Calgary 5,812	$\frac{12,329}{2,725}$	14,067 7,216	13.00 12.00		$13.50 \\ 12.00$	
Edmonton 4,628 Prince Albert 587	2,251	3,705 411	12.25 12.75	14.00	12.25 13.25	
Moose Jaw 1,505	***	1,255	12.25		13.25	
	SHE	EP				

		SHE	EP.			
		-Sales-	-	Top pri	ice good	lambs
	Month		Month	Month	Same month,	
	Mar.	1921.	Feb.	Mar.	1921.	Feb.
Toronto (U.						
S. Y.)	1,731	5,794	5,658	\$16.00	\$15.00	\$15.00
Montreal (Pt.						
St. Chs.)	293	227	377	11.00	12,50	11.00
Montreal (E.						418"
End)	404	208	412	11.00	12.50	11,00
Winnipeg	1.790	1,076	1,742	12,00	13.50	9.75
Calgary	6.243	1.819	9,933	12.00	11.00	10.00
Edmonton	327	236	351	10.00	10.50	9.00
Prince Albert						
Moose Jaw	31		247			9.00

RAIL MEN SEE STOCK LOSS FILM.

The moving picture film, "Livestock Losses and How to Reduce Them," prepared by the Bureau of Public Relations of the Institute of American Meat Packers for the Committee on Livestock Handling Losses, was recently shown to an important group of twenty representative railroad men in New York City. At the meeting, which was arranged by Pendleton Dudley, eastern director of the institute, copies of the institute pamphlet on the reduction of livestock handling losses were distributed and both the pamphlets and the film were commented upon favorably by the railroad men.

These representatives included W. F. Cunningham, district freight claim agent, N. Y. C. R. R.; P. Rumsey, station supervisor, N. Y. C. R. R.; H. B. Tucker, secretary, freight claim prevention committee, metropolitan district, N. Y. C. R. R.; E. S. Hartman, chief, claim prevention bureau, Lehigh Valley R. R., Bethlehem, Pa.; G. H. Stevens, agent, N. Y. C. R. R., 60th street station, New York City; R. Doremus, Erie R. R., 71 West 23d street, New York City; A. E. Pasman, supervisor, freight claim prevention, Erie R. R., New York City; R. J. Reilly, general agent, Lehigh Valley R. R., Jersey City, N. J.; J. S. Schulties, N. J. Central R. R., freight claim department; S. B. Schulties, N. J. Central R. R., freight claim office; H. P. Klinsman, C. R. R. of N. J., West 23d



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street, New York City; M. H. Potter, chief claim investigator, C. R. R. of N. J.: J. H. Hustis, Jr., special assistant to the vicepresident, N. Y. C. R. R.; Abraham Cohen, Jersey City Stock Yards, Jersey City, N. J.; Thos. C. Smith, freight agent, C. R. R. of N. J.; Dr. A. C. Hassloch, 400 West 50th street, New York City (veterinarian); G. C. Woodruff, general freight agent, N. Y. C. R. R.; H. C. Snyder, assistant freight claim agent, Lehigh Valley R. R., New York City; R. L. Calkins, freight claim agent, N. Y. C. R. R.; R. W. Quackenbush, agricultural agent, N. Y. C. R. R., 1006-466 Lexington avenue, New York City.

NEW GERMAN LIVESTOCK CENSUS.

The official figures of the recent cattle census recently published, showed that on December 1, 1921, Germany possessed over 3,600,000 horses, as against 3,500,000 on December 1, 1920; 16,800,000 head of cattle, including 9,000,000 cows, as against 16,800,000 and 8,700,000 respectively in 1920; 5,800,000 sheep, as against 6,100,000; 15,800,000 pigs, as against 14,100,000; 4,-300,000 goats, as against 4,400,000.

Germany's stocks of sheep and goats are now greater than in December, 1913. The figures for cattle are 9 per cent, and pigs. 30 per cent lower than those for 1913.

NEW V	OP	K	M	ARKET PR
		N	IVI	
LIVE CATT				FRESH PO
Steers, medium to prime Cows, common to choice Bulls, common to choice Heifers, mixed		4.70	@5.50 @5.35	Fresh pork loins, western. Frozen pork loins Fresh pork tenderloins Frozen pork tenderloins
LIVE CALV	ES.			Shoulders, city Shoulders, Western
Calves, veals, prime, per 100 lb Calves, veals, common to media Calves, veals, culls, per 100 lbs.	am	. 6.50	@ 9.25	Butts, boneless, Western. Butts, regular, fresh city Butts, boneless, Western. Fresh hams, city
LIVE SHEEP AND				Fresh picnic hams, Wester Extra lean pork trimmings
Spring lambs, 100 lbs. prime Sheep, ewes, prime, 100 lbs Sheep, ewes, common to good, pe		. 7.25	@ 7.50	BONES, HOOFS
Sheep, wethers, clipped				Round shin bones, avg. 49
LIVE HOO	SS.			per 100 pcs
Hogs, heavy Hogs, medium Hogs, 140 lbs. Pigs, under 70 lbs. Roughs		10%	@11¼ @11.35 @11.15	Black hoofs, per ton Striped hoofs, per ton White hoofs, per ton Thigh bones, avg. 85 to
DRESSED BI				Horns, avg. 71/2 oz. and ov
CITY DRESSE	ED.			Horns, avg. 71/2 oz. and ov Horns, avg. 71/2 oz. and ov
Choice, native, heavy		17	@18	BUTCHERS'
Native, common to fair WESTERN DRESSE			@16	Fresh steer tongues, L.C., Fresh steer tongues, untri
Native steers, 800@1,000 lbs Native steers, 800@800 lbs		14	@141/2	Calves' heads, scalded Sweetbreads, veal Sweetbreads, beef
Native choice yearlings, 400@60 Western steers, 600@800 lbs	00 lbs	15	@151/2	Beef kidneys
Texas steers, 400@600 lbs		11	@12	Livers, beef
Texas steers, 400@600 lbs Good to choice heifers		131/	@14	Oxtails
Common to fair heifers Choice cows			@1114 @1214	Rolls, beef Tenderloin beef, Western Lambs, fries
Fresh bologna bulls				
BEEF CU	TS.			BUTCHE
	Western.	***	City.	Ordinary shop fat Breast fat
	@21 @18		@21 @19	Edible suet
No. 3 ribs	@14		@171/4	Inedible suet
No. 1 loins	@24	23	@25	Shop bones, per cwt
No. 2 loins	@20		@23	
No. 3 loins	@14		@20	SPI
No. 1 hinds and ribs19			@21	
No. 2 hinds and ribs181		19		Pepper, Sing., white
No. 3 hinds and ribs14 No. 1 rounds	@13		2@19 @1714	Pepper, Sing., black
No. 2 rounds	@12			Pepper, red
No. 3 rounds	@11		@18 @13	Allspice
No. 1 chucks	@11		@11	Cinnamon
No. 2 chucks	@ 9		@11	Coriander
No. 3 chucks	@ 7		@10	Cloves
Bolognas 8			@ 9	Mace
DRESSED CA	LVES			CURING M
Veals, city dressed, good to prin	me ner	lh.	@30	CURING
vents, city dressed, good to brit				
Veals, country dressed, per lb.			@23	
		22		Refined saltpetre, granula

DRESSED HOGS.

DRESSED SHEEP AND LAMBS.

 Lambs, choice, spring
 33 @35

 Lambs, poor to good
 28 @32

 Sheep, choice
 23 @24

 Sheep, medium to good
 21 @23

 Sheep, culls
 18 u

PROVISIONS. (Jobbing Trade.)

 Smoked hams, 10 lbs. avg.
 28 @29

 Smoked hams, 12@14 avg.
 27 @28

 Smoked picnics, light.
 16 @17

 Smoked picnics, heavy.
 15 @16

 Smoked pictics, leavy
 15
 @16

 Smoked shoulders
 17
 @18

 Smoked beef tongue, per lb
 36
 @37

 Smoked bacon (rib ia)
 23
 @24

 Pried beef sets
 42
 @43

 Pickled bellies, heavy
 17
 @18

@16 @1614 @1614

@16%

Hogs, heavy
Hogs, 180 lbs.
Hogs, 160 lbs.
Hogs, 140 lbs.

Pigs, 80 down....

THE NATIONAL PRO	VISIO:	NER
ARKET PRICE	ES	
FRESH PORK C	UTS.	
Fresh pork loins, western Frozen pork loins Fresh pork tenderloins	20	@26 @22 @55
Frozen pork tenderioins	17	@48 @ @18 @24
Butts, boneless, Western Butts, regular, fresh city Butts, boneless, Western Fresh hama, city	23	@24 @24
Fresh picnic hams, Western Extra lean pork trimmings	15	
BONES, HOOFS AND	HORN	1S .
Round shin bones, avg. 48 to 50 per 100 pcs	\$100.00 b., per 90.00 30.00 70.00 , per 100.00 18 225.00 28 175.00 38 100.00	@100.00 @ 40.00 @ 40.00 @ 85.00 @2110.00 @275.00
Fresh steer tongues, L.C., trm'd	@37c.	a pound
Fresh steer tongues, untrimmed Calves' heads. scalded Sweetbreads, veal Sweetbreads, beef	@28c. @65c. @75c. @45c.	a pound a piece ' a pair a pound
Beef kidneys Mutton kidneys Livers, beef Oxtails	@15c. @ 6c. @18c. @12c.	a pound a pound a pound
Hearts, beef Rolls, beef Tenderloin beef, Western Lambs, fries		a pound a pound a pound a pair
BUTCHER'S F		•
Ordinary shop fat		@ 2 @ 4 @ 5 @ 4

Ordinary shop fat	@ 2
Breast fat	@ 4
Edible suet	@ 5
Inedible suet	@ 4
Shop bones, per cwt20	@25

ICES.

Pepper,	Sing., white	Whole.	Ground 18
Pepper,	Sing., black	11	14
Pepper,	red	36	40
Allspice		5	8
Cinnamo		13	17
Cortande	·	7	10
Cloves .		32	37
Ginger .		12	15
Mace		48	58

MATERIALS.

	Bbls.	bags.
Refined saltpetre, granulated	7%	7%
Refined saltpetre, small crystals	8%	8%
Refined nitrate soda, C. L., gran	41/6	4%
Refined nitrate soda, L. C. L., gran	4%	4%
Refined nitrate soda, C. L., crystal	514	51%
Refined nitrate soda, L. C. L., crystal.	. 51/2	5%
Double refined nitrate of sods and salt	petre in	kegs,
100 to 150 lbs not to over above price		

GREEN CALFSKINS.

5-9 914-1214 1214-14	14-18	18	lbs.
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			12	18.	lbs.	lbs.	lbs.	up.
Prime	No.	1	veals	17	1.99	2.30	2.65	3.15
Prime	No.	2	veals	15	1.70	2.05	2.40	2.90
Butter	milk		No. 1	14	1.60	2.05	2.40	
Butter	milk		No. 2	12	1.40	1.85	2.20	
Brande	ed,	gr	ubby	10	1.15	1.35	1.55	1.75
No. 3				-		-At valu	1e	

DRESSED POULTRY.

FRESH KILLED.

Fowls-Fre	sh-	dry	p p	acked	i, r	nilk fee	1-12 to bo	x.
Western,	60	to	65	lbs.	to	dozen,	lb30	@31
Western,	48	to	54	lbs.	to	dozen,	lb30	@31
Western,	43	to	47	lbs.	to	dozen,	lb29	@30
Western,	36	to	42	lbs.	to	dozen,	lb28	@29
Western,	30	to	35	lbs.	to	dozen,	lb26	@27
Western.	nn	der	30	lbs.	to	dozen.	lb24	@25

Fowls-Fresh-dry packed, corn fed-12 to box.	
Western, 60 to 65 lbs. to dozen, lb29	@30
Western, 48 to 54 lbs. to dozen, lb29	@30
Western, 48 to 47 lbs. to dozen, lb28	@29
Western, 36 to 42 lbs. to domen, lb27	@28
Western, 30 to 35 lbs. to dozen, lb24	@26
Western, under 30 lbs. to dozen, lb23	@24
Fowls-Fresh-Dry Packed-Barrels, corn fed.	
Western, dry packed, 5 lbs. and over, lb.27	@28
Western, dry packed, 41/2 lbs. each, lb.27	@28
Western, dry packed, 31/2 lbs. each, lb25	@26
Western, dry packed, 3 lbs. and under, lb.23	@24
Old Cocks-Fresh-dry packed-boxes or bbls.	
Western, dry packed, boxes22	@23
Western, scalded, barrels20	@21
Ducks, Long Island Spring-	
Western, fatted, fancy, per lb	@35
Squabs-	
Prime, white, 10 lbs. to doz., doz8.5	0@9.00
Prime, white, 9 lbs. to doz., doz7.5	00.800
Prime, white, 8 lbs. to doz., doz6.5	0@7.50
Prime, white, 7 lbs. to doz., doz5.0	00.6.00
Prime, white, 6 to 61/2 lbs. to doz., doz.4.0	0@4.50
Culls, per dozen	2.00
LIVE POULTRY.	
Fowls, via exp	@29
Spring broilers, via express60	@70
Old roosters	@15
Ducks, via express	@25
Turkeys, via express	@40
Geese, via express17	@20
Pigeons, per pair	@50
Guineas, per pair	@70
Guineas, per pair	

Creamery	(higher	80	ori	ng		1	01	ts	1)						.3	91/	@40
Creamery,	firsts														.3	8	@381/2
Creamery.	seconds														.5	4	@36
Creamery,	lower	gra	de	8.						0					. 5	12	@331/
			1	T/	c	•	1	c									

Fresh	gathered,	extras, per doz80	1/2@31
Fresh	gathered,	extra firsts28	@29
Fresh	gathered,	firsts	@271/2
Fresh	gathered,	checks, fair to choice, dry.22	@23
Fresh	gathered,	dirties, No. 1	@231/2

PEDTII IZED MADVETS

PERTILIZER MARKETS.
BASIS NEW YORK DELIVERY.
Bone meal, steamed, 3 and 50, per ton.32.50@85.00
Bone meal, raw, per ton
Dried blood, high grade @ 3.75
Nitrate of soda—spot @ 2.85
Bone black, discard, sugar house del.,
New York, per ton del'd N. Ynom.14.00@18.00
Ground tankage, N. Y., 9 to 12 per cent
ammonia 3.25@ 3.50
Fish scrap, dried, 11 per cent ammonia
and 15 per cent bone phosphate, deliv-
ered, Baltimore 3,75@ 4.00
Foreign fish guano, testing 13@14 per cent
ammonia and about 10 per cent B. Phos.

lime	@ 4.00
Wet, acidulated, 7 per cent ammonia per	
ton, f.o.b. factory (85c per unit avail-	
able phos. acid)	0
Sulphate ammonia, for shipment, per 100	
the man Of non cont in home	2 000 2 2 08

lbs., guar., 25 per cent in bags...... 3.00@ 3.25 Muriate of potash, 80-85%, per unit K₂O .70@ .75 Sulphate of potash, 90-95%, per unit K₂O. @ 1.00

BUTTER AT FOUR MARKETS.

Wholesale prices of 92 score butter at Chicago, New York, Boston and Philadelphia, for the week of April 15 to April 21, 1922:

-	April					
Chicago371/2	17. 37½	18. 371/2	19. 371/2	20. 37½	21. 38	+ 1/4
New York38	38	39	391/2	39	39	+1
Boston38 Phila38	381/2	39 381/2	391/2	39 39	39 39 ½	+14

*Holiday.
Wholesale prices of carlots, fresh centralized butter, 90 score at Chicago: -Anril-

Receipts of	17. 1 36% 37 butter	37	37 37	14 + %
This week. Chicago24,486	Last week. 28,021	Last year. 28,546	1922. 652,253	Jan. 1, 1921. 551,198
New York 43,542 Boston 9,513 Phila 9,945	40,194 10,452 7,412	29,833 7,532 8,953	842,052 225,691 240,223	607,836 191,249 170,325
Total87,486 Cold storage	86,079 move		1,960,219 lbs.:	1,520,608
Chicago		Out of storage. 56,008	Apr. 21, w 739,192	

New York 25,575 Boston 15,417 Phila 120	49,815 102,462	1,346,275 547,302 67,690	3,263,410 1,243,520 395,05
Total50,112	212,675	2,700,459	5,956,678

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